10/041,121

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* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS 4	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAplus
NEWS 5	FEB 05	German (DE) application and patent publication number format changes
NEWS 6	MAR 03	MEDLINE and LMEDLINE reloaded
NEWS 7	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS 8	MAR 03	FRANCEPAT now available on STN
NEWS 9	MAR 29	Pharmaceutical Substances (PS) now available on STN
NEWS 10	MAR 29	WPIFV now available on STN
NEWS 11	MAR 29	New monthly current-awareness alert (SDI) frequency in RAPRA
NEWS 12	APR 26	PROMT: New display field available
NEWS 13	APR 26	IFIPAT/IFIUDB/IFICDB: New super search and display field available
NEWS 14	APR 26	LITALERT now available on STN
NEWS 15	APR 27	NLDB: New search and display fields available
NEWS 16	May 10	PROUSDDR now available on STN
NEWS 17	May 19	PROUSDDR: One FREE connect hour, per account, in both May and June 2004
NEWS 18	May 12	EXTEND option available in structure searching
NEWS 19	May 12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS 20	May 17	FRFULL now available on STN
NEWS 21	May 27	STN User Update to be held June 7 and June 8 at the SLA 2004 Conference
NEWS 22	May 27	New UPM (Update Code Maximum) field for more efficient patent SDIs in CAplus
NEWS 23	May 27	CAplus super roles and document types searchable in REGISTRY
NEWS 24	May 27	Explore APOLLIT with free connect time in June 2004

NEWS EXPRESS	MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 17:24:29 ON 06 JUN 2004

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 17:24:42 ON 06 JUN 2004
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 4 JUN 2004 HIGHEST RN 689739-78-4
DICTIONARY FILE UPDATES: 4 JUN 2004 HIGHEST RN 689739-78-4

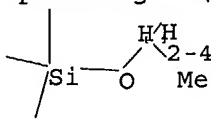
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

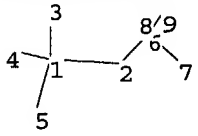
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10041121.str





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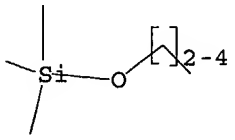
1 2 6 7 8 9
ring/chain nodes :
3 4 5
chain bonds :
1-2 1-3 1-4 1-5 2-6 6-7 6-8 6-9
exact/norm bonds :
2-6
exact bonds :
1-2 1-3 1-4 1-5 6-7 6-8 6-9

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

L1 STRUCTURE UPLOADED

=> d query
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 17:24:57 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 9531 TO ITERATE

10.5% PROCESSED 1000 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 184771 TO 196469
PROJECTED ANSWERS: 105915 TO 114821

L2 50 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 17:25:03 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 191163 TO ITERATE

100.0% PROCESSED 191163 ITERATIONS 106014 ANSWERS
SEARCH TIME: 00.00.02

L3 106014 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 155.42 155.63

FILE 'CAPLUS' ENTERED AT 17:25:10 ON 06 JUN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 6 Jun 2004 VOL 140 ISS 24
FILE LAST UPDATED: 4 Jun 2004 (20040604/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s l3
L4        28782 L3

=> s perfluor?
L5        47305 PERFLUOR?

=> s l4 and l5
L6          209 L4 AND L5

=> d l6 150-209 abs ibib hitstr
```

L6 ANSWER 150 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

AB **Perfluoroalkanes** having an alkoxysilylstyrene group at one end, p-(1H,1H,2H,2H-**perfluoroalkoxydimethylsilyl**)styrenes (PFAS) and p-(1H,1H,2H,2H-**perfluoroalkyldialkoxysilyl**)styrenes (PFDS), were synthesized and radically polymerized The resulting polymers were applied to separation membranes. In situ-formed poly(PFAS) membranes obtained by bulk polymerization were tough and showed good O permselectivity. The chemical structures of poly(PFAS)s, in which **perfluoroalkyl** side chains were connected to the backbone by Si-O-C spacer bonds, yielded high O permselectivity. Blend membranes of poly(PFAS) with di-Me siloxane exhibited high EtOH permselectivity. This was attributed to the water repellency of poly(PFAS), which accumulated at the surface. In the case of blend membranes of poly(PFDS) with di-Me siloxane, the reaction of functional groups in poly(PFDS) in the membrane caused O permselectivity to be enhanced.

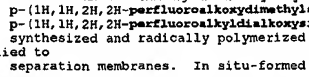
ACCESSION NUMBER: 1993:102614 CAPLUS
DOCUMENT NUMBER: 118:102614
TITLE: Synthesis and polymerization of **perfluoroalkanes** having an alkoxysilylstyrene group at one end and application of the resulting polymers to oxygen- and ethanol-permselective membranes
AUTHOR(S): Aoki, Toshiki; Toyoshima, Yasuo; Yamagiwa, Katsuyoshi;
Oikawa, Eizo
CORPORATE SOURCE: Fac. Eng., Niigata Univ., Niigata, 950-21, Japan
SOURCE: Kobunshi Ronbunshu (1992), 49(10), 791-9
CODEN: KBRBA3; ISSN: 0386-2186
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

IT **141105-83-1P 141105-84-2P 141105-85-3P**
141105-86-4P 146124-59-6P 146124-60-9P
146124-68-7P 146124-69-8P 146124-70-1P
146124-71-2P 146124-72-3P 146124-73-4P
146124-74-5P 146124-75-6P 146124-76-7P
146124-77-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and application of, to permselective membranes for oxygen and ethanol)

RN 141105-83-1 CAPLUS
CN Silane, (4-ethenylphenyl)dimethyl[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)oxy]-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 141098-26-2
CMF C16 H17 F9 O Si



RN 141105-84-2 CAPLUS
CN Silane, (4-ethenylphenyl)dimethyl[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)oxy]-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 141098-27-3
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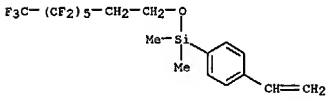
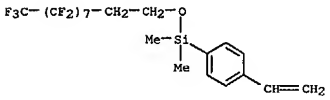


RN 141105-85-3 CAPLUS
CN Silane, (4-ethenylphenyl)[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

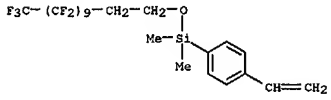
CRN 141098-28-4
CMF C20 H17 F17 O Si



RN 141105-86-4 CAPLUS
CN Silane, (4-ethenylphenyl)[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,1 2-heneicosafluorododecyl)oxy]dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

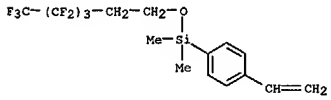
CRN 141098-29-5
CMF C22 H17 F21 O Si



RN 146124-59-6 CAPLUS
CN Disiloxane, (4-ethenylphenyl)pentamethyl-, polymer with (4-ethenylphenyl)dimethyl[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)oxy]silane (9CI) (CA INDEX NAME)

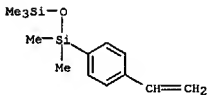
CM 1

CRN 141098-26-2
CMF C16 H17 F9 O Si



CM 2

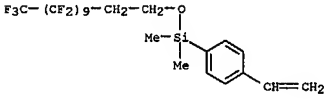
CRN 5931-11-3
CMF C13 H22 O Si2



RN 146124-60-9 CAPLUS
CN Disiloxane, (4-ethenylphenyl)pentamethyl-, polymer with (4-ethenylphenyl)[(3,3,4,4,4,5,5,6,6,7,7,8,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl)oxy]dimethylsilane (9CI) (CA INDEX NAME)

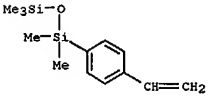
CM 1

CRN 141098-29-5
CMF C22 H17 F21 O Si



CM 2

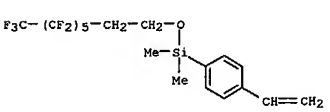
CRN 5931-11-3
CMF C13 H22 O Si2



RN 146124-68-7 CAPLUS
CN Silane, (4-ethenylphenyl)dimethyl[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)oxy]-, polymer with (4-ethenylphenyl)dimethyl[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)oxy]silane (9CI) (CA INDEX NAME)

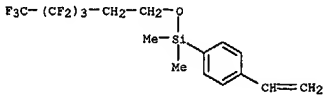
CM 1

CRN 141098-27-3
CMF C18 H17 F13 O Si



CM 2

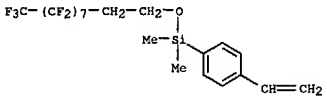
CRN 141098-26-2
CMF C16 H17 F9 O Si



RN 146124-69-8 CAPLUS
CN Silane, (4-ethenylphenyl)[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]dimethyl-, polymer with (4-ethenylphenyl)dimethyl[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)oxy]silane (9CI)
(CA INDEX NAME)

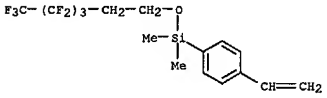
CM 1

CRN 141098-28-4
CMF C20 H17 F17 O Si



CM 2

CRN 141098-26-2
CMF C16 H17 F9 O Si



RN 146124-70-1 CAPLUS
CN Silane,
(4-ethenylphenyl)dimethyl[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)oxy]-, polymer with (4-ethenylphenyl)trimethylsilane (9CI) (CA INDEX NAME)

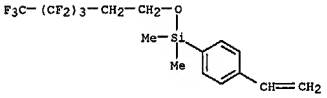
CM 1

CRN 141098-26-2
CMF C16 H17 F9 O Si

RN 146124-72-3 CAPLUS
CN Silane,
(4-ethenylphenyl)dimethyl[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)oxy]-, polymer with (4-ethenylphenyl)ethoxydimethylsilane (9CI) (CA INDEX NAME)

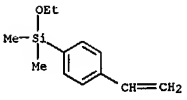
CM 1

CRN 141098-26-2
CMF C16 H17 F9 O Si



CM 2

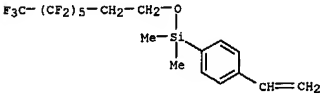
CRN 6026-61-5
CMF C12 H18 O Si

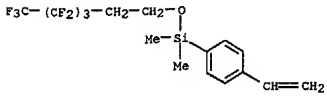


RN 146124-73-4 CAPLUS
CN Silane, (4-ethenylphenyl)dimethyl[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)oxy]-, polymer with (4-ethenylphenyl)ethoxydimethylsilane (9CI) (CA INDEX NAME)

CM 1

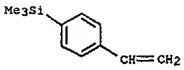
CRN 141098-27-3
CMF C18 H17 F13 O Si





CM 2

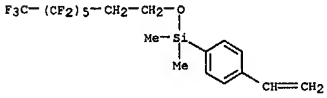
CRN 1009-43-4
CMF C11 H16 Si



RN 146124-71-2 CAPLUS
CN Silane, (4-ethenylphenyl)dimethyl[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)oxy]-, polymer with (4-ethenylphenyl)pentamethyldisiloxane (9CI) (CA INDEX NAME)

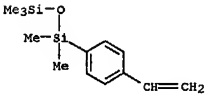
CM 1

CRN 141098-27-3
CMF C18 H17 F13 O Si



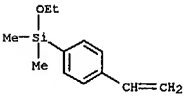
CM 2

CRN 5931-11-3
CMF C13 H22 O Si2



CM 2

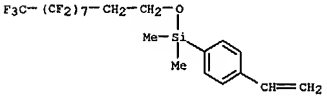
CRN 6026-61-5
CMF C12 H18 O Si



RN 146124-74-5 CAPLUS
CN Silane, (4-ethenylphenyl)ethoxydimethyl-, polymer with (4-ethenylphenyl)[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]dimethylsilane (9CI) (CA INDEX NAME)

CM 1

CRN 141098-28-4
CMF C20 H17 F17 O Si



CM 2

CRN 6026-61-5
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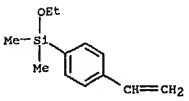
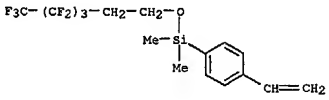


RN 146124-75-6 CAPLUS
CN Disiloxane, 1,3-bis(4-ethenylphenyl)-1,1,3,3-tetramethyl-, polymer with (4-ethenylphenyl)dimethyl[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)oxy]silane (9CI) (CA INDEX NAME)

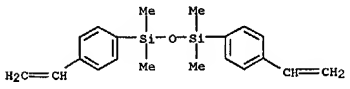
CM 1

L6 ANSWER 150 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CRN 141098-26-2
CMF C16 H17 F9 O Si



CM 2

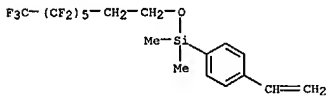
CRN 16106-76-6
CMF C20 H26 O Si2



RN 146124-76-7 CAPLUS
CN Disiloxane, 1,3-bis(4-ethenylphenyl)-1,1,3,3-tetramethyl-, polymer with (4-ethenylphenyl)dimethyl[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)oxy]silane (9CI) (CA INDEX NAME)

CM 1

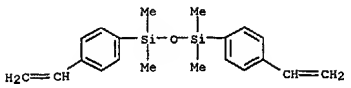
CRN 141098-27-3
CMF C18 H17 F13 O Si



CM 2

CRN 16106-76-6
CMF C20 H26 O Si2

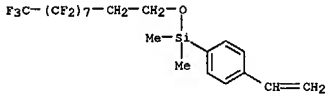
L6 ANSWER 150 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 146124-77-8 CAPLUS
CN Disiloxane, 1,3-bis(4-ethenylphenyl)-1,1,3,3-tetramethyl-, polymer with (4-ethenylphenyl)[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]dimethylsilane (9CI) (CA INDEX NAME)

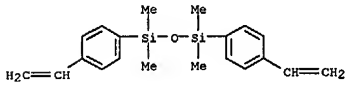
CM 1

CRN 141098-28-4
CMF C20 H17 F17 O Si

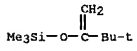


CM 2

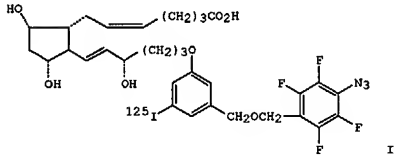
CRN 16106-76-6
CMF C20 H26 O Si2



L6 ANSWER 151 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB Fluorinated β-diketones, e.g. Cl(CF2)5COCH2COMe, were synthesized in high yield from the one-pot reaction of silyl enol ethers with **perfluoroalkyl** iodides initiated with Na2S2O4/NaHCO3, followed by treatment with diethylamine and acid hydrolysis.
ACCESSION NUMBER: 1993:101494 CAPLUS
DOCUMENT NUMBER: 118:101494
TITLE: Reactions of silyl enol ether with **perfluoroorganic** compounds. II. One-pot reaction for the synthesis of fluorinated β-diketones
AUTHOR(S): Huang, Weiyuan; Wu, Yongming
CORPORATE SOURCE: Shanghai Inst. Org. Chem., Acad. Sin., Shanghai, 200032, Peop. Rep. China
SOURCE: Journal of Fluorine Chemistry (1992), 59(2), 179-83
CODEN: JFLCAR; ISSN: 0022-1139
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 118:101494
IT **17510-46-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with **perfluoroalkyl** iodides)
RN 17510-46-2 CAPLUS
CN Silane, (2,2-dimethyl-1-methylenepropoxy)trimethyl- (9CI) (CA INDEX NAME)



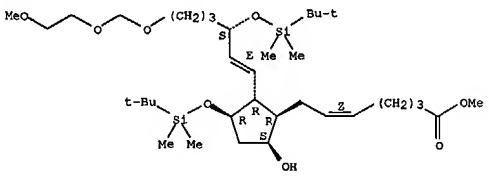
L6 ANSWER 152 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
GI



AB C-18 phenoxy analogs of prostaglandin F2α (PGF2α) that possessed a **perfluorinated** aryl azide and an aryl iodide substituent were prepared and evaluated as potential photoaffinity probes for PGF2α. Prior studies indicated that only hydrophobic modifications in the ω-side chain of PGF2α were compatible with high binding affinity, and this finding excluded the use of a hdyroxyl-substituted C-18 phenoxy group as an activated aryl ring capable of radioiodination. Consequently, an alternative means of introducing the iodine substituent using an ipso-substitution of a trimethylsilyl arene was developed. Although this strategy was successful from a synthetic perspective, the potential PGF2α photoaffinity probe, I, exhibited only marginal competitive binding with [3H]-PGF2α to ovine luteal cells and to plasma membranes of bovine corpora lutea. The hydrophobic but bulky C-18 substituent was presumably incompatible with effective receptor binding.
ACCESSION NUMBER: 1993:94956 CAPLUS
DOCUMENT NUMBER: 118:94956
TITLE: Prostaglandin photoaffinity probes: Synthesis and binding affinity of C-18 substituted PGF2α prostanoids bearing a **perfluorinated** aryl azide
AUTHOR(S): Golinski, Miroslaw; Heine, Michal; Orlicky, David J.; Fitz, Tony A.; Watt, David S.
CORPORATE SOURCE: Dep. Chem., Univ. Kentucky, Lexington, KY, 40506, USA
SOURCE: Eicosanoids (1992), 5(2), 87-97
CODEN: EICOEM; ISSN: 0934-9820
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **134828-90-3P 134828-91-4P 145163-65-1P 145986-99-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and butyldimethylsilylation of)
RN 134828-90-3 CAPLUS
CN 5-Heptenoic acid, 7-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-6-[(2-methoxyethoxy)methoxy]-1-hexenyl]-5-hydroxycyclopentyl]-, methyl ester, [1R-[1α(Z),2β(1E,3S*),3.alpha.,5α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

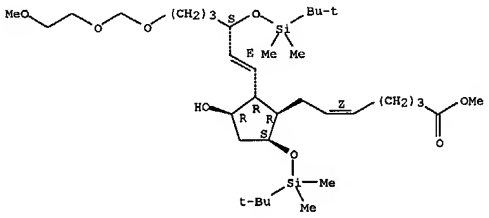
Double bond geometry as shown.



RN 134828-91-4 CAPLUS
CN 5-Heptenoic acid,
7-[5-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-[3-[[(1,1-

dimethylethyl)dimethylsilyl]oxy]-6-[(2-methoxyethoxy)methoxy]-1-hexenyl]-3-hydroxycyclopentyl]-, methyl ester, [1R-[1α(Z),2β(1E,3S*),3.alpha.,5α]]- (9CI) (CA INDEX NAME)

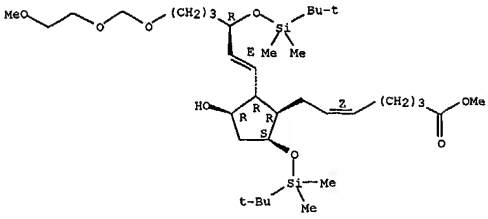
Absolute stereochemistry.
Double bond geometry as shown.



RN 145163-65-1 CAPLUS
CN 5-Heptenoic acid,
7-[5-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-[3-[[(1,1-

dimethylethyl)dimethylsilyl]oxy]-6-[(2-methoxyethoxy)methoxy]-1-hexenyl]-3-hydroxycyclopentyl]-, methyl ester, [1R-[1α(Z),2β(1E,3R*),3.alpha.,5α]]- (9CI) (CA INDEX NAME)

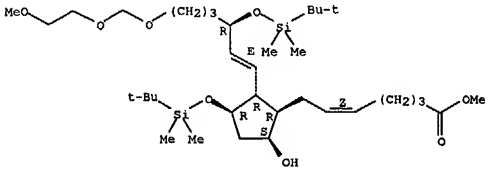
Absolute stereochemistry.
Double bond geometry as shown.



RN 145986-99-8 CAPLUS
CN 5-Heptenoic acid,
7-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-[3-[[(1,1-

dimethylethyl)dimethylsilyl]oxy]-6-[(2-methoxyethoxy)methoxy]-1-hexenyl]-5-hydroxycyclopentyl]-, methyl ester, [1R-[1α(Z),2β(1E,3R*),3.alpha.,5α]]- (9CI) (CA INDEX NAME)

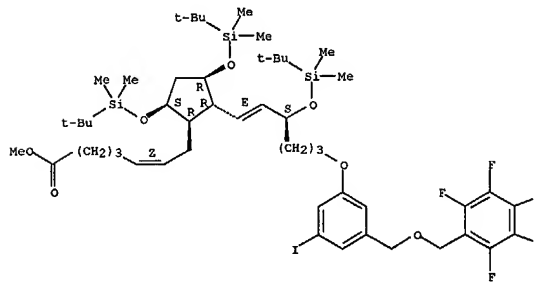
Absolute stereochemistry.
Double bond geometry as shown.



IT **134828-96-9P 145374-52-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and deprotection of)
RN 134828-96-9 CAPLUS
CN 5-Heptenoic acid, 7-[2-[6-[3-[[(4-azido-2,3,5,6-tetrafluorophenyl)methoxy]methyl]-5-iodophenoxy]-3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1-hexenyl]-3,5-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]cyclopentyl]-, methyl ester, [1R-[1α(Z),2β(1E,3S*),3α,5α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A

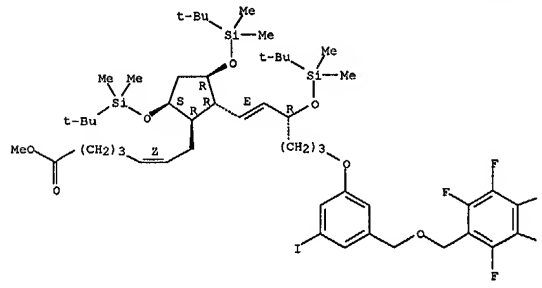


PAGE 1-B

RN 145374-52-3 CAPLUS
CN 5-Heptenoic acid, 7-[2-[6-[3-[[(4-azido-2,3,5,6-tetrafluorophenyl)methoxy]methyl]-5-iodophenoxy]-3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1-hexenyl]-3,5-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]cyclopentyl]-, methyl ester, [1R-[1α(Z),2β(1E,3R*),3α,5α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

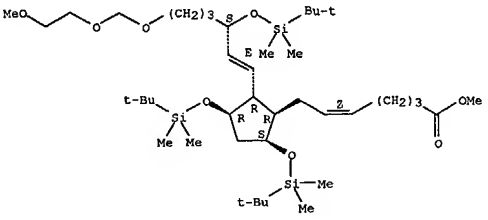
PAGE 1-A



PAGE 1-B

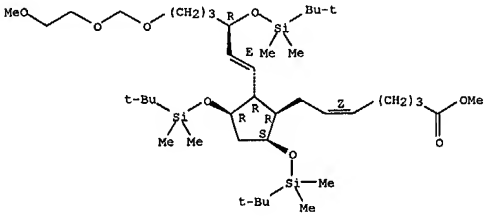
IT **134852-88-3P 145374-50-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and deprotection of, with chlorocatechol borane)
RN 134852-88-3 CAPLUS
CN 5-Heptenoic acid, 7-[3,5-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-6-[(2-methoxyethoxy)methoxy]-1-hexenyl]cyclopentyl]-, methyl ester, [1R-[1α(Z),2β(1E,3S*),3.alpha.,5α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



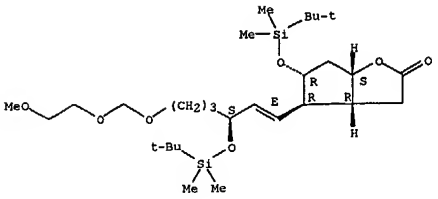
RN 145374-50-1 CAPLUS
CN 5-Heptenoic acid, 7-[3,5-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-6-[(2-methoxyethoxy)methoxy]-1-hexenyl]cyclopentyl]-, methyl ester, [1R-[1α(Z),2β(1E,3R*),3.alpha.,5α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



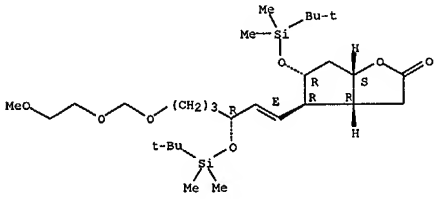
IT **134828-89-0P 145163-64-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and lactone ring reduction and Wittig reaction with (carboxybutyl)triphenylphosphonium bromide)
RN 134828-89-0 CAPLUS
CN 2H-Cyclopenta[b]furan-2-one, 5-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-4-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-6-[(2-methoxyethoxy)methoxy]-1-hexenyl]hexahydro-, [3aR-[3aα,4α(1E,3S*),5β,6aα]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



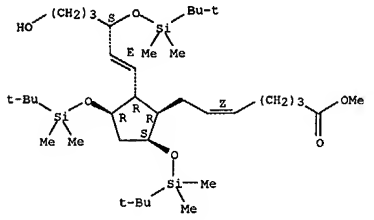
RN 145163-64-0 CAPLUS
CN 2H-Cyclopenta[b]furan-2-one, 5-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-4-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-6-[(2-methoxyethoxy)methoxy]-1-hexenyl]hexahydro-, [3aR-[3aα,4α(1E,3R*),5β,6aα]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



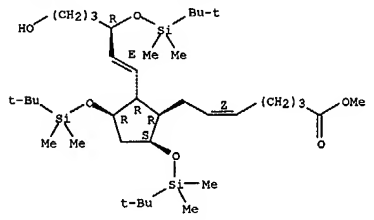
IT **134828-92-5P 145374-51-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and mesylation of)
RN 134828-92-5 CAPLUS
CN 5-Heptenoic acid, 7-[3,5-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-6-hydroxy-1-hexenyl]cyclopentyl]-, methyl ester, [1R-[1α(Z),2β(1E,3S*),3α,5α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



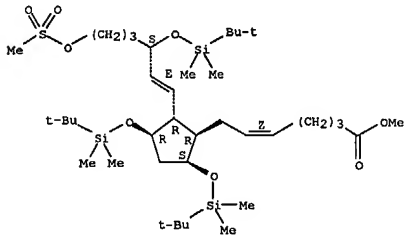
RN 145374-51-2 CAPLUS
CN 5-Heptenoic acid, 7-[3,5-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-6-hydroxy-1-hexenyl]cyclopentyl]-, methyl ester, [1R-[1α(Z),2β(1E,3R*),3α,5α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



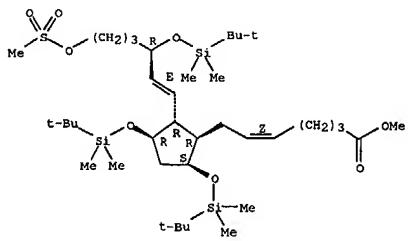
IT **134828-93-6P 145375-75-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with tetrafluorophenyliodophenol derivative)
RN 134828-93-6 CAPLUS
CN 5-Heptenoic acid, 7-[3,5-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-6-[(methylsulfonyl)oxy]-1-hexenyl]cyclopentyl]-, methyl ester, [1R-[1α(Z),2β(1E,3S*),3.alpha.,5α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

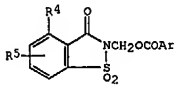


RN 145375-75-3 CAPLUS
CN 5-Heptenoic acid, 7-[3,5-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-6-[(methylsulfonyl)oxy]-1-hexenyl]cyclopentyl]-, methyl ester, [1R-[1α(Z),2β(1E,3R*),3.alpha.,5α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



L6 ANSWER 153 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
GI



I

AB Title compds. I [Ar = substituted Ph, -naphthyl, -anthryl; R4 = H, halo, C1-10 alkyl, C1-10 **perfluoroalkyl**, C1-10 perchloroalkyl, C2-10 alkenyl, C2-10 alkynyl, cyano, (substituted) amino, C1-10 alkoxy, PhCH2O, C2-11 alkoxycarbonyl, Ph, CONH2; R5 = H, halo, cyano, NO2, (substituted) amino, C1-10 alkylsulfonylamino, SO2NH2, (substituted) C1-10 alkyl, cycloalkyl, C1-10 alkoxy, OH, CO2H, CHO, CH2NH2, etc.; or R5 5- or 6-membered fused saturated heterocyclyl containing 2 atoms selected from N, O, S; with provisos] were prepared as protease inhibitors useful for the treatment of degenerative diseases. Thus, a mixture of 2-chloromethyl-4,6-dimethoxysaccharin (preparation given), 2,6-dichlorobenzoic acid, and Et3N in PhMe was refluxed for 6 h to give 4,6-dimethoxy-2-saccharinylmethyl 2,6-dichlorobenzoate (II). II had Ki of 0.08 nM vs. protease.

ACCESSION NUMBER: 1992:469858 CAPLUS
DOCUMENT NUMBER: 117:69858
TITLE: Preparation of 2-saccharinylmethyl benzoates and related compounds as protease inhibitors
INVENTOR(S): Dunlap, Richard Paul; Boaz, Neil Warren; Mura, Albert Joseph; Subramanyam, Chakrapani; Kumar, Virendra; Desai, Ranjit Chimanlal; Hlasta, Dennis John; Saindane, Manohar Tukram; Bell, Malcolm Rice; Court, John Joseph
PATENT ASSIGNEE(S): Sterling Winthrop Inc., USA
SOURCE: Eur. Pat. Appl., 84 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 483928	A1	19920506	EP 1991-202809	19911030
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
AU 9186083	A1	19920507	AU 1991-86083	19911024
AU 642537	B2	19931021		
SG 69977	A1	20000125	SG 1996-7579	19911030
CA 2054653	AA	19920502	CA 1991-2054653	19911031
HU 63399	A2	19930830	HU 1991-3430	19911031
IL 99913	A1	19961114	IL 1991-99913	19911031
IL 114773	A1	19961205	IL 1991-114773	19911031
FI 9105163	A	19920502	FI 1991-5163	19911101
NO 9104288	A	19920504	NO 1991-4288	19911101
JP 04273866	A2	19920930	JP 1991-288080	19911101
RU 2114843	C1	19980710	RU 1991-5010338	19911101

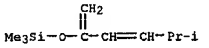
L6 ANSWER 153 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

NO 9202976	A	19920504	NO 1992-2976	19920728
US 5380737	A	19950110	US 1993-113508	19930827
HU 70756	A2	19951030	HU 1994-569	19940225
HU 70764	A2	19951030	HU 1994-580	19940225
US 5464852	A	19951107	US 1994-289113	19940811
FI 9404968	A	19941021	FI 1994-4968	19941021
US 5578623	A	19961126	US 1995-445240	19950519
FI 9600490	A	19960202	FI 1996-490	19960202
US 5773456	A	19980630	US 1996-719216	19960925

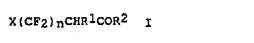
PRIORITY APPLN. INFO.:

US 1990-608068	A	19901101
US 1989-347125	B2	19890504
US 1989-347126	B2	19890504
US 1990-514920	A	19900426
US 1991-782016	A	19911024
HU 1991-3430	A	19911031
IL 1991-99913	A3	19911031
FI 1991-5163	A	19911101
NO 1991-4288	A1	19911101
US 1991-793035	B1	19911115
US 1993-113508	A3	19930827
US 1994-289113	A3	19940811
FI 1994-4968	A	19941021
US 1995-445240	A3	19950519

OTHER SOURCE(S): MARPAT 117:69858
IT **142576-75-8**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of protease inhibitors)
RN 142576-75-8 CAPLUS
CN Silane, trimethyl[(4-methyl-1-methylene-2-pentenyl)oxy]- (9CI) (CA INDEX NAME)



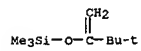
L6 ANSWER 154 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
GI



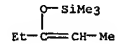
I

AB The reaction of silyl enol ethers with **perfluoroalkyl** iodides initiated with sodium dithionite was studied. α-**Perfluoroalkyl** ketones I [(R1R2) = (CH2)m, m = 3,4; R1 = H, Me; R2 = Me3C, Me, Et; X = Cl, F, n = 2,4,6,8] were synthesized in excellent yield by this method. α,β-Unsatd. fluorinated ketones were obtained easily by dehydrofluorination of the α-perfluoroalkyl ketones. A radical mechanism was proposed.

ACCESSION NUMBER: 1992:407291 CAPLUS
DOCUMENT NUMBER: 117:7291
TITLE: Studies on the reactions of silyl enol ether with **perfluoroorganic** compounds. I. The reaction of silyl enol ether with **perfluoroalkyl** iodide
AUTHOR(S): Ge, Wenzheng; Wu, Yongming; Huang, Weiyuan
CORPORATE SOURCE: Shanghai Inst. Org. Chem., Chin. Acad. Sci., Shanghai, 200032, Peop. Rep. China
SOURCE: Chinese Journal of Chemistry (1991), 9(6), 527-35
CODEN: CJOCEV; ISSN: 1001-604X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 117:7291
IT **17510-46-2 17510-47-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with perfluorooalkyl iodides, mechanism of)
RN 17510-46-2 CAPLUS
CN Silane, (2,2-dimethyl-1-methylenepropoxy)trimethyl- (9CI) (CA INDEX NAME)

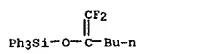


RN 17510-47-3 CAPLUS
CN Silane, [(1-ethyl-1-propenyl)oxy]trimethyl- (9CI) (CA INDEX NAME)



L6 ANSWER 155 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB Reaction of Ph3SiLi with (CF3CO)2O in the presence of CuI in THF gave 75% title compound, CF3COSiPh3; the first example of **perfluoroacylsilane**, which on treatment with RLi (R = Bu, Me, Ph, 4-MeC6H4, Ph3Si) in THF gave 89-99% CF2:CROSiPh3.

ACCESSION NUMBER: 1992:235711 CAPLUS
DOCUMENT NUMBER: 116:235711
TITLE: (Trifluoroacetyl)triphenylsilane as a potentially useful fluorine-containing building block. Preparation and its transformation into 2,2-difluoro enol silyl ethers
AUTHOR(S): Jin, Fuqiang; Jiang, Biao; Xu, Yuanyao
CORPORATE SOURCE: Shanghai Inst. Org. Chem., Acad. Sin., Shanghai, 200032, Peop. Rep. China
SOURCE: Tetrahedron Letters (1992), 33(9), 1221-4
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 116:235711
IT **141334-28-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 141334-28-3 CAPLUS
CN Silane, [[1-(difluoromethylene)pentyl]oxy]triphenyl- (9CI) (CA INDEX NAME)



L6 ANSWER 156 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

AB Several p-(1H,1H,2H,2H-**perfluoroalkyloxydimethylsilyl**)styrenes having **perfluoroalkyl** groups with different chain lengths were synthesized and polymerized Dimethyl siloxane-based blend membranes, which contained a very small amount (1.0 wt%) of poly[p-(1H,1H,2H,2H-**perfluoroalkyloxydimethylsilyl**)styrene], had good EtOH permselectivity. All of their separation factors (αEtOH) and permeation rates (P) were higher than those of dimethyl siloxane alone. In particular, poly[p-(1H,1H,2H,2H-**perfluorohexyloxydimethylsilyl**)styrene] showed the best performance (αEtOH = 22.3, P = 2.06 + 10-2 g m m-2 h-1). This was attributed to the characteristics of the F-containing polymers which were accumulated at the membrane surface.

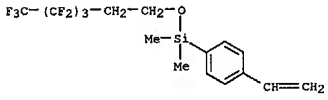
ACCESSION NUMBER: 1992:215853 CAPLUS
DOCUMENT NUMBER: 116:215853
TITLE: Poly[p-(1H,1H,2H,2H-**perfluoroalkyloxydimethylsily** 1)styrenes] as materials for ethanol-permselective membranes
AUTHOR(S): Aoki, Toshiki; Toyoshima, Yasuo; Yoshizawa, Tomoko; Oikawa, Eizo
CORPORATE SOURCE: Fac. Eng., Niigata Univ., Niigata, 950-21, Japan
SOURCE: Polymer (1992), 33(3), 662-3
CODEN: POLMAG; ISSN: 0032-3861
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **141105-83-1 141105-84-2 141105-85-3 141105-86-4**
RL: USES (Uses)
(membranes, permselective, for ethanol)

RN 141105-83-1 CAPLUS
CN Silane, (4-ethenylphenyl)dimethyl[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)oxy]-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 141098-26-2
CMF C16 H17 F9 O Si

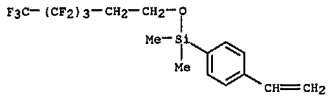


RN 141105-84-2 CAPLUS
CN Silane, (4-ethenylphenyl)dimethyl[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)oxy]-, homopolymer (9CI) (CA INDEX NAME)

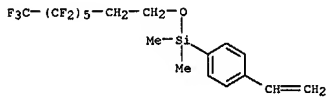
CM 1

CRN 141098-27-3
CMF C18 H17 F13 O Si

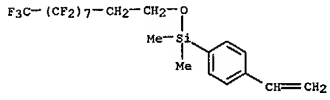
L6 ANSWER 156 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



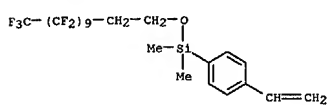
RN 141098-27-3 CAPLUS
CN Silane, (4-ethenylphenyl)dimethyl[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)oxy]- (9CI) (CA INDEX NAME)



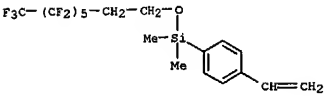
RN 141098-28-4 CAPLUS
CN Silane, (4-ethenylphenyl)[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]dimethyl- (9CI) (CA INDEX NAME)



RN 141098-29-5 CAPLUS
CN Silane, (4-ethenylphenyl)[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl)oxy]dimethyl- (9CI) (CA INDEX NAME)



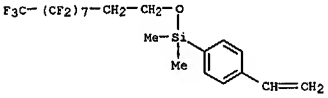
L6 ANSWER 156 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 141105-85-3 CAPLUS
CN Silane, (4-ethenylphenyl)[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

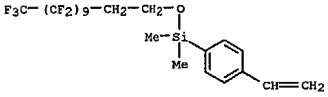
CRN 141098-28-4
CMF C20 H17 F17 O Si



RN 141105-86-4 CAPLUS
CN Silane, (4-ethenylphenyl)[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl)oxy]dimethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 141098-29-5
CMF C22 H17 F21 O Si



IT **141098-26-2P 141098-27-3P 141098-28-4P 141098-29-5P**
RL: PREP (Preparation)
(synthesis and polymerization of, for permselective membranes)

RN 141098-26-2 CAPLUS
CN Silane, (4-ethenylphenyl)dimethyl[(3,3,4,4,5,5,6,6,6-nonafluorohexyl)oxy]- (9CI) (CA INDEX NAME)

L6 ANSWER 157 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

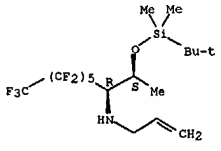
AB In the presence of BF3·OEt2, (**perfluoroalkyl**)lithiums generated in situ from the reaction of primary **perfluoroalkyl** iodides and MeLi-LiBr reacted with imines, azines, and nitrones to afford **perfluoroalkylated** nitrogen-containing compds. in moderate to good yields. This method was successfully applied to the preparation of a (**perfluoroalkyl**)glycine and optically active **perfluoroalkylated** amines.

ACCESSION NUMBER: 1992:105250 CAPLUS
DOCUMENT NUMBER: 116:105250
TITLE: Boron trifluoride-assisted **perfluoroalkylation** of carbon-nitrogen double bonds
AUTHOR(S): Uno, Hidemitsu; Okada, Shinichiro; Ono, Tetsushi; Shiraishi, Yasukazu; Suzuki, Hitomi
CORPORATE SOURCE: Adv. Instrum. Cent. Chem. Anal., Ehime Univ., Matsuyama, 790, Japan
SOURCE: Journal of Organic Chemistry (1992), 57(5), 1504-13
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 116:105250

IT **137967-32-9 137967-35-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(**perfluorohexylation** of)

RN 137967-32-9 CAPLUS
CN 3-Nonanamine, 2-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluoro-N-2-propenyl-, (R*,S*)- (9CI) (CA INDEX NAME)

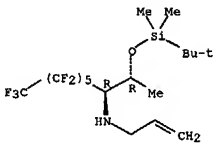
Relative stereochemistry.



RN 137967-35-2 CAPLUS
CN 3-Nonanamine, 2-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluoro-N-2-propenyl-, (R*,R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L6 ANSWER 157 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L6 ANSWER 158 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

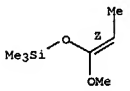
AB The Pr-, Eu- and Ho(dppm)3 [dppm = di(**perfluoro**-2-propoxypropionyl)methanato] catalyzed aldol reactions of glyceraldehyde acetonide with ketene silyl acetals are described, where remarkably high anti-diastereofacial selection is achieved. Thus, the asym. synthesis of 2-deoxy-D-ribonolactone and formal synthesis of 2-amino-2-deoxy-D-pentose by the lanthanide(III) catalyzed aldol reaction with ketene silyl acetals of acetate and α-chloroacetate, resp. are described.

ACCESSION NUMBER: 1992:84069 CAPLUS
DOCUMENT NUMBER: 116:84069
TITLE: Lanthanide(III) catalyzed aldol reactions of glyceraldehyde acetonide with ketene silyl acetals: catalytic asymmetric route to monosaccharides
AUTHOR(S): Mikami, Koichi; Terada, Masahiro; Nakai, Takeshi
CORPORATE SOURCE: Dep. Chem. Technol., Tokyo Inst. Technol., Tokyo, 152, Japan
SOURCE: Tetrahedron: Asymmetry (1991), 2(10), 993-6
CODEN: TASYE3; ISSN: 0957-4166
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 116:84069

IT **72658-03-8 72658-09-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(aldol condensation of, with glyceraldehyde acetonide, lantanide(III) catalyzed)

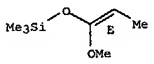
RN 72658-03-8 CAPLUS
CN Silane, [[(1Z)-1-methoxy-1-propenyl]oxy]trimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 72658-09-4 CAPLUS
CN Silane, [[(1E)-1-methoxy-1-propenyl]oxy]trimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

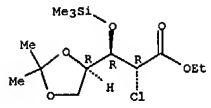


IT **138851-87-3P 138851-88-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and epoxidn. of)

RN 138851-87-3 CAPLUS
CN D-Ribonic acid, 2-chloro-2-deoxy-4,5-O-(1-methylethylidene)-3-O-(trimethylsilyl)-, ethyl ester (9CI) (CA INDEX NAME)

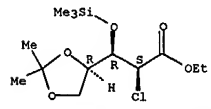
Absolute stereochemistry.

L6 ANSWER 158 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 138851-88-4 CAPLUS
CN D-Arabinonic acid, 2-chloro-2-deoxy-4,5-O-(1-methylethylidene)-3-O-(trimethylsilyl)-, ethyl ester (9CI) (CA INDEX NAME)

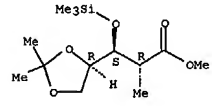
Absolute stereochemistry.



IT **111998-48-2P 111998-49-3P 111998-50-6P 111998-51-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reduction of)

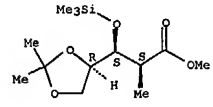
RN 111998-48-2 CAPLUS
CN D-Ribonic acid, 2-deoxy-2-methyl-4,5-O-(1-methylethylidene)-3-O-(trimethylsilyl)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 111998-49-3 CAPLUS
CN D-Arabinonic acid, 2-deoxy-2-methyl-4,5-O-(1-methylethylidene)-3-O-(trimethylsilyl)-, methyl ester (9CI) (CA INDEX NAME)

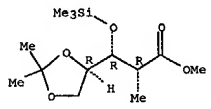
Absolute stereochemistry.



L6 ANSWER 158 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

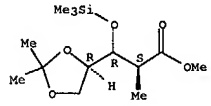
RN 111998-50-6 CAPLUS
CN D-Xylonic acid, 2-deoxy-2-methyl-4,5-O-(1-methylethylidene)-3-O-(trimethylsilyl)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 111998-51-7 CAPLUS
CN D-Lyxonic acid, 2-deoxy-2-methyl-4,5-O-(1-methylethylidene)-3-O-(trimethylsilyl)-, methyl ester (9CI) (CA INDEX NAME)

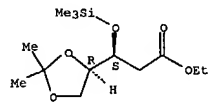
Absolute stereochemistry.



IT **138851-86-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, desilylation, and lactonization of)

RN 138851-86-2 CAPLUS
CN D-erythro-Pentonic acid, 2-deoxy-4,5-O-(1-methylethylidene)-3-O-(trimethylsilyl)-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



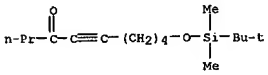
L6 ANSWER 159 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

AB Selective regiochem. introduction of F into (Z)-5-decenyl acetate provides
analogs to probe the hydrophobicity requirements of the pheromone receptor
site in the turnip moth, Agrotis segetum. (Z)-RCH:CH(CH2)4OAc [R = F3C(CF2)3, Et(CF2)2, CF3(CH2)3, PrCF2] and (Z)-BuCH:CHCF2(CH2)3OAc were prepared

ACCESSION NUMBER: 1992:59004 CAPLUS
DOCUMENT NUMBER: 116:59004
TITLE: Synthesis of partially fluorinated analogs of (Z)-5-decenyl acetate: probes for hydrophobic interaction in pheromone reception
AUTHOR(S): Sun, Wei Chuan; Ng, Chi Shing; Prestwich, Glenn D.
CORPORATE SOURCE: Dep. Chem., State Univ. New York, Stony Brook, NY, 11794-3400, USA
SOURCE: Journal of Organic Chemistry (1992), 57(1), 132-7
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English

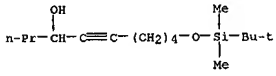
IT **137649-03-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and desilylation of)

RN 137649-03-7 CAPLUS
CN 5-Decyn-4-one, 10-[[(1,1-dimethylethyl)dimethylsilyl]oxy]- (9CI) (CA INDEX NAME)



IT **137649-02-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)

RN 137649-02-6 CAPLUS
CN 5-Decyn-4-ol, 10-[[(1,1-dimethylethyl)dimethylsilyl]oxy]- (9CI) (CA INDEX NAME)

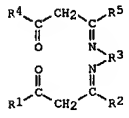


IT **73448-13-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with butyraldehyde)

RN 73448-13-2 CAPLUS
CN Silane, (1,1-dimethylethyl)(5-hexynyloxy)dimethyl- (9CI) (CA INDEX NAME)

L6 ANSWER 160 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

GI



I

AB Fluorinated β-keto imine ligands and highly volatile β-keto iminato metal complexes of the ligands are synthesized by silylating a fluorinated β-diketone to form a silylenol ether, and subsequently reacting the ether with a primary diamine to form the desired ligand having the structural formula I, where R1, R2, R4 and R5 are independently
linear or branched **perfluorinated**, C1-8 alkyl groups and R3 is any organic functionality, such as C1-8 alkylene, phenylene, or hydroxylalkylene group, all of which can be partially or fully fluorinated. The corresponding metal complex is formed by treating the ligand with a metal halide.

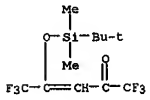
ACCESSION NUMBER: 1992:33355 CAPLUS
DOCUMENT NUMBER: 116:33355
TITLE: Fluorinated beta-keto iminato metal complexes
INVENTOR(S): Norman, John Anthony Thomas
PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., USA
SOURCE: Eur. Pat. Appl., 17 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 446772	A1	19910918	EP 1991-103405	19910306
R: AT, BE, CH, DE, FR, GB, IT, LI, SE				
CA 2037538	AA	19910913	CA 1991-2037538	19910305
JP 04234838	A2	19920824	JP 1991-72552	19910312

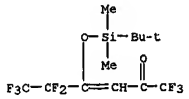
PRIORITY APPLN. INFO.: US 1990-491909 19900312
OTHER SOURCE(S): MARPAT 116:33355

IT **131772-64-0 131772-65-1 131772-66-2 131772-67-3 131772-68-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of thermally volatile fluorinated β-keto iminato metal complexes)

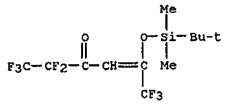
RN 131772-64-0 CAPLUS
CN 3-Penten-2-one, 4-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,1,1,5,5,5-hexafluoro- (9CI) (CA INDEX NAME)



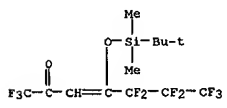
RN 131772-65-1 CAPLUS
CN 3-Hexen-2-one, 4-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,1,1,5,5,6,6,6-octafluoro- (9CI) (CA INDEX NAME)



RN 131772-66-2 CAPLUS
CN 4-Hexen-3-one, 5-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,1,1,2,2,6,6,6-octafluoro- (9CI) (CA INDEX NAME)

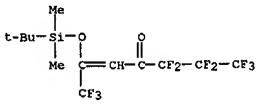


RN 131772-67-3 CAPLUS
CN 3-Hepten-2-one, 4-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,1,1,5,5,6,6,7,7,7-decafluoro- (9CI) (CA INDEX NAME)



RN 131772-68-4 CAPLUS
CN 2-Hepten-4-one, 2-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,1,1,5,5,6,6,7,7,7-decafluoro- (9CI) (CA INDEX NAME)

L6 ANSWER 160 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L6 ANSWER 161 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
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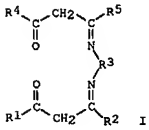


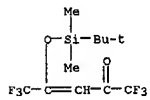
AB Fluorinated β-ketoimine ligands and highly volatile β-ketoiminato metal complexes of the ligands are synthesized by silylating a fluorinated β-diketone to form a silylenolether, and subsequently reacting the silylenolether with a primary diamine to form the desired ligand having the structural formula I, where R1, R2, R4, and R5 are independently linear or branched **perfluorinated** C1-8 alkyl groups and R3 is any organic functionality, such as a C1-8 alkyl, Ph or hydroxyalkyl group, all of which can be partially or fully fluorinated. The corresponding metal complex is formed by treating the ligand with a metal halide.

ACCESSION NUMBER: 1991:621938 CAPLUS
DOCUMENT NUMBER: 115:221938
TITLE: Fluorinated beta-ketoimines and beta-ketoiminato metal complexes
INVENTOR(S): Norman, John Anthony Thomas
PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., USA
SOURCE: Eur. Pat. Appl., 19 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

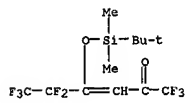
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 373513	A2	19900620	EP 1989-122601	19891207
EP 373513	A3	19910320		
EP 373513	B1	19950510		
R: DE, GB, NL				
CA 2004639	AA	19900612	CA 1989-2004639	19891205
JP 02202861	A2	19900810	JP 1989-317428	19891206
JP 06062533	B4	19940817		

PRIORITY APPLN. INFO.: US 1988-283418 19881212
OTHER SOURCE(S): MARPAT 115:221938
IT **131772-64-0P 131772-65-1P 131772-67-3P 131772-68-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of chemical stable ligands and β-ketoiminato metal complexes)
RN 131772-64-0 CAPLUS

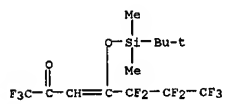
L6 ANSWER 161 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 3-Penten-2-one, 4-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,1,1,5,5,5-hexafluoro- (9CI) (CA INDEX NAME)



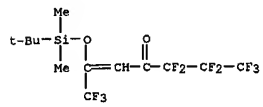
RN 131772-65-1 CAPLUS
CN 3-Hexen-2-one, 4-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,1,1,5,5,6,6,6-octafluoro- (9CI) (CA INDEX NAME)



RN 131772-67-3 CAPLUS
CN 3-Hepten-2-one, 4-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,1,1,5,5,6,6,7,7,7-decafluoro- (9CI) (CA INDEX NAME)

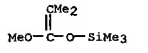


RN 131772-68-4 CAPLUS
CN 2-Hepten-4-one, 2-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,1,1,5,5,6,6,7,7,7-decafluoro- (9CI) (CA INDEX NAME)



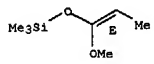
L6 ANSWER 162 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB The unique catalysis by Eu(dppm)3, tris[di(**perfluoro**-2-propoxypropionyl)methionato]europium(III), in the aldol and Michael reactions with enol silyl ethers is described, where high levels of mol. recognition are achieved through the effective discrimination of steric and/or electronic factors in aldehydes in the initial complexation step.

ACCESSION NUMBER: 1991:582221 CAPLUS
DOCUMENT NUMBER: 115:182221
TITLE: Unique catalysis by Eu(dppm)3: catalytic molecular recognition in aldol and Michael reactions
AUTHOR(S): Mikami, Koichi; Terada, Masahiro; Nakai, Takeshi
CORPORATE SOURCE: Dep. Chem. Technol., Tokyo Inst. Technol., Tokyo, 152, Japan
SOURCE: Journal of Organic Chemistry (1991), 56(18), 5456-9
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 115:182221
IT **31469-15-5 72658-09-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(aldol reaction of, with aldehydes, europium complex as catalyst for)
RN 31469-15-5 CAPLUS
CN Silane, [(1-methoxy-2-methyl-1-propenyl)oxy]trimethyl- (9CI) (CA INDEX NAME)

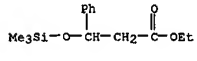


RN 72658-09-4 CAPLUS
CN Silane, [[(1E)-1-methoxy-1-propenyl]oxy]trimethyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



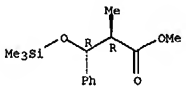
IT **60623-95-2P 78024-62-1P 136425-72-4P 136425-73-5P 136425-75-7P 136425-76-8P 136425-78-0P 148091-82-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and desilylation of)
RN 60623-95-2 CAPLUS
CN Benzenepropanoic acid, β-[(trimethylsilyl)oxy]-, ethyl ester (9CI) (CA INDEX NAME)



RN 78024-62-1 CAPLUS

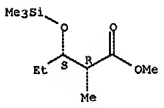
CN Benzenepropanoic acid, α-methyl-β-[(trimethylsilyl)oxy]-, methyl ester, (R*,R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



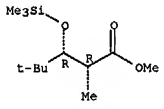
RN 136425-72-4 CAPLUS
CN Pentanoic acid, 2-methyl-3-[(trimethylsilyl)oxy]-, methyl ester, (R*,S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

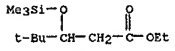


RN 136425-73-5 CAPLUS
CN Pentanoic acid, 2,4,4-trimethyl-3-[(trimethylsilyl)oxy]-, methyl ester, (R*,R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

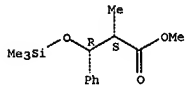


RN 136425-75-7 CAPLUS
CN Pentanoic acid, 4,4-dimethyl-3-[(trimethylsilyl)oxy]-, ethyl ester (9CI) (CA INDEX NAME)



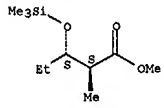
RN 136425-76-8 CAPLUS
CN Benzenepropanoic acid, 4-methoxy-α-methyl-β-[(trimethylsilyl)oxy]-, methyl ester, (R*,R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



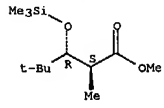
RN 136425-80-4 CAPLUS
CN Pentanoic acid, 2-methyl-3-[(trimethylsilyl)oxy]-, methyl ester, (R*,R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



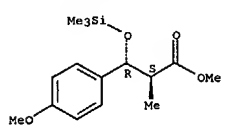
RN 136425-81-5 CAPLUS
CN Pentanoic acid, 2,4,4-trimethyl-3-[(trimethylsilyl)oxy]-, methyl ester, (R*,S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

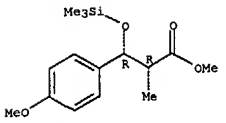


RN 136425-82-6 CAPLUS
CN Benzenepropanoic acid, 4-methoxy-α-methyl-β-[(trimethylsilyl)oxy]-, methyl ester, (αR,βS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

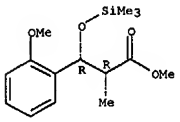


RN 136425-84-8 CAPLUS
CN Benzenepropanoic acid, 2-methoxy-α-methyl-β-[(trimethylsilyl)oxy]-, methyl ester, (R*,S*)- (9CI) (CA INDEX NAME)



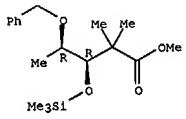
RN 136425-78-0 CAPLUS
CN Benzenepropanoic acid, 2-methoxy-α-methyl-β-[(trimethylsilyl)oxy]-, methyl ester, (R*,R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 148091-82-1 CAPLUS
CN threo-Pentonic acid, 2,5-dideoxy-2,2-dimethyl-4-O-(phenylmethyl)-3-O-(trimethylsilyl)-, methyl ester (9CI) (CA INDEX NAME)

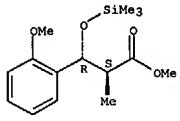
Relative stereochemistry.



IT **78024-63-2P 136425-80-4P 136425-81-5P**
136425-82-6P 136425-84-8P 136425-86-0P
136425-87-1P 136425-88-2P 136425-89-3P
136425-90-6P 136425-91-7P 136425-92-8P
136425-93-9P 136425-94-0P 148091-83-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 78024-63-2 CAPLUS
CN Benzenepropanoic acid, α-methyl-β-[(trimethylsilyl)oxy]-, methyl ester, (R*,S*)- (9CI) (CA INDEX NAME)

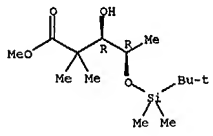
Relative stereochemistry.

Relative stereochemistry.



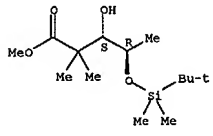
RN 136425-86-0 CAPLUS
CN threo-Pentonic acid, 2,5-dideoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-2,2-dimethyl-, methyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 136425-87-1 CAPLUS
CN erythro-Pentonic acid,
2,5-dideoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-2,2-dimethyl-, methyl ester (9CI) (CA INDEX NAME)

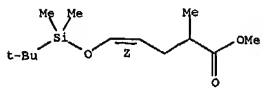
Relative stereochemistry.



RN 136425-88-2 CAPLUS
CN 4-Pentenoic acid, 5-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-methyl-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

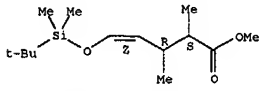
Double bond geometry as shown.

L6 ANSWER 162 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



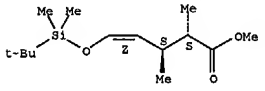
RN 136425-89-3 CAPLUS
CN 4-Pentenoic acid,
5-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2,3-dimethyl-,
methyl ester, [R*,S*-(Z)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



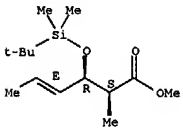
RN 136425-90-6 CAPLUS
CN 4-Pentenoic acid,
5-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2,3-dimethyl-,
methyl ester, [R*,R*-(Z)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

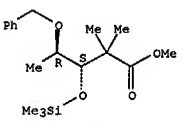


RN 136425-91-7 CAPLUS
CN 4-Hexenoic acid, 3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-methyl-,
methyl ester, [R*,S*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

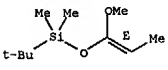


L6 ANSWER 162 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



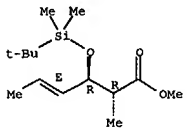
IT **84784-58-7**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with acrolein, europium complex as catalyst for)
RN 84784-58-7 CAPLUS
CN Silane, (1,1-dimethylethyl)[[(1E)-1-methoxy-1-propenyl]oxy]dimethyl-
(9CI)
(CA INDEX NAME)

Double bond geometry as shown.



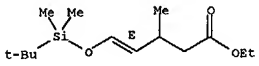
L6 ANSWER 162 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 136425-92-8 CAPLUS
CN 4-Hexenoic acid, 3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-methyl-,
methyl ester, [R*,R*-(E)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



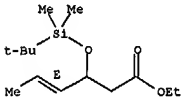
RN 136425-93-9 CAPLUS
CN 4-Pentenoic acid, 5-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-3-methyl-,
ethyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 136425-94-0 CAPLUS
CN 4-Hexenoic acid, 3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-, ethyl ester,
(4E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 148091-83-2 CAPLUS
CN erythro-Pentonic acid, 2,5-dideoxy-2,2-dimethyl-4-O-(phenylmethyl)-3-O-
(trimethylsilyl)-, methyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

L6 ANSWER 163 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB The title compds., fluoroalkyl olefins, fluorinated ketones and fluorobenzenes are prepared by reacting (R1)3SiCF2T, (R1)3SiPh [R1 = (substituted) hydrocarbyl; T = F, FCW2, W = (substituted) hydrocarbyl, silanyl, H, F] with Q1CF:CMQ2 [Q1, Q2 = F, X2FC; X = H, Cl, F, (substituted) hydrocarbyl, H2C:CH, bond; M = X2FC, X2CFO], FCOR2 [R2 = (substituted) hydrocarbyl], **perfluoropyridine**, PhY (Y = nonreactive group whose Hammet sigma constant is +0.5 or more) in presence of catalyst and a solvent. BzF and C6F13SiMe3 in THF-d8 were treated with CeF and heated for 15 min at 60° to give PhCOC6F13.

ACCESSION NUMBER: 1991:535679 CAPLUS
DOCUMENT NUMBER: 115:135679
TITLE: Process for producing fluorinated organic compounds
INVENTOR(S): Farnham, William Brown
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: PCT Int. Appl., 42 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

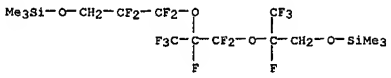
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9105750	A2	19910502	WO 1990-US5660	19901011
WO 9105750	A3	19910808		
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
US 5093512	A	19920303	US 1989-424470	19891020
CA 2067387	AA	19910421	CA 1990-2067387	19901011
EP 498817	A1	19920819	EP 1990-915622	19901011
EP 498817	B1	19940608		
R: DE, FR, GB, IT, NL, SE				
JP 05501252	T2	19930311	JP 1990-514545	19901011
US 5171893	A	19921215	US 1991-801344	19911202

PRIORITY APPLN. INFO.: US 1989-424470 19891020
WO 1990-US5660 19901011
OTHER SOURCE(S): MARPAT 115:135679
IT **135771-00-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 135771-00-5 CAPLUS
CN 3,6,9,13-Tetraoxa-2,14-disilapentadecane, 5,7,7,8,10,10,11,11-octafluoro-2,2,14,14-tetramethyl-5,8-bis(trifluoromethyl)-, polymer with 1,1'-(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-eicosafluoro-1,10-decanediyl)bis[2,3,3,4,4,5,5-heptafluorocyclopentene] and 1,1'-(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-tetracosafluoro-1,12-dodecanediyl)bis[2,3,3,4,4,5,5-heptafluorocyclopentene] (9CI) (CA INDEX NAME)

CM 1

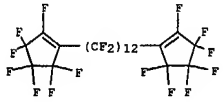
CRN 135770-99-9
CMF C15 H22 F14 O4 Si2

L6 ANSWER 163 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



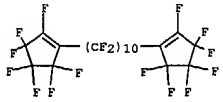
CM 2

CRN 135770-98-8
CMF C22 F38

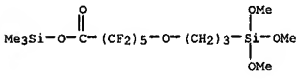


CM 3

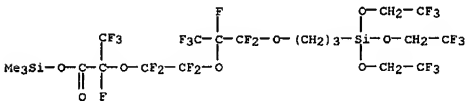
CRN 135770-97-7
CMF C20 F34



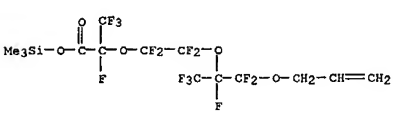
L6 ANSWER 164 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 133304-64-0 CAPLUS
CN Hexanoic acid, 2,2,3,3,4,4,5,5,6,6-decafluoro-6-[3-(trimethoxysilyl)propoxy]-, trimethylsilyl ester (9CI) (CA INDEX NAME)



RN 133304-68-4 CAPLUS
CN 3,8,11,14-Tetraoxa-4-silahexadecan-16-oic acid, 1,1,1,9,9,10,12,12,13,13,15-undecafluoro-4,4-bis(2,2,2-trifluoroethoxy)-10,15-bis(trifluoromethyl)-, trimethylsilyl ester (9CI) (CA INDEX NAME)



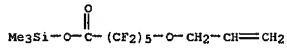
IT **133304-73-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrosilylation of)
RN 133304-73-1 CAPLUS
CN Propanoic acid, 2-[2-[1-[difluoro(2-propenyloxy)methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,2-tetrafluoroethoxy]-2,3,3,3-tetrafluoro-, trimethylsilyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 164 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB The title compns., storage-stable, noncorrosive, and moisture-curable, contain OH-terminated siloxanes, the silanes R14-nSi[OC(R3):CHR2]n (R1 = hydrocarbyl; R2,R3 = H or hydrocarbyl or form a ring; n = 3 or 4), and the carboxylic acid derivs. (R4O)mSi(R5)3-m ZOCF2ZfCO2X [R4, R5 = hydrocarbyl; Z = hydrocarbylene; Zf = **perfluoroalkylene**, oxybis(**perfluoroalkylene**); X = H, triorganosilyl; m = 2 or 3]. A mixture of OH-terminated di-Me siloxane (viscosity 20.2 Pa-s) 100, pyrogenic SiO2 12, TiO2 1.5, [CH2:C(Me)O]3SiMe 6, and (CF3CH2O)3Si(CH2)3OCF2CF(CF3)OCF2CF2OC[(CF3)CO2SiMe3 0.5, part was stable for 6 mo at room temperature in the absence of air, but, when exposed as a 2-mm film at 20° and 55% relative humidity for 7 days, gave a rubber with JIS-A hardness 29, 31, and 33, tensile strength 196, 186, and 206 N/cm2, and elongation 350, 330, and 270 after 0 and 6 mo at 20° or 1 wk at 200°, resp.
ACCESSION NUMBER: 1991:473433 CAPLUS
DOCUMENT NUMBER: 115:73433
TITLE: Silicone compositions vulcanizable at room temperature
INVENTOR(S): Satoh, Shinichi; Takago, Toshio; Kinami, Hitoshi
PATENT ASSIGNEE(S): Shin-Btsu Chemical Co., Ltd., Japan
SOURCE: Ger. Offen., 15 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4024719	A1	19910207	DE 1990-4024719	19900803
DE 4024719	C2	19980219		
JP 03066757	A2	19910322	JP 1989-202116	19890803
JP 06062853	B4	19940817		
US 5126420	A	19920630	US 1990-562318	19900803

PRIORITY APPLN. INFO.: JP 1989-202116 19890803
IT **133304-71-9P**
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(manufacture and hydrosilylation of)
RN 133304-71-9 CAPLUS
CN Hexanoic acid, 2,2,3,3,4,4,5,5,6,6-decafluoro-6-(2-propenyloxy)-, trimethylsilyl ester (9CI) (CA INDEX NAME)



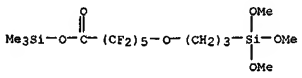
IT **133304-64-0P 133304-68-4P**
RL: PREP (Preparation)
(manufacture of, as vulcanization accelerator for moisture-curable silicone rubber)

L6 ANSWER 165 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB The carboxylic acid derivs. CH2:CHCH2OCF2RfCOZ (Rf = divalent **perfluoroalkyl** or **perfluoropolyether** group; Z = halogen, OH, siloxy group), useful as intermediates in the manufacture of silanes useful as vulcanization accelerators for silicone rubbers at room temperature, are prepared from acyl fluoride-terminated compds., alkali metalfluorides, and allyl halides. Thus, refluxing CsF 434, tetraglyme 880, and FCO(CF2)4COF 600 g and heating with 321 g allyl bromide at 70° gave 48% CH2:CHCH2O(CF2)5COF. Bistrimethylsilylacetamide 47 and CH2:CHCH2OCF2CF(CF3)OCF2CF2OCF(CF3)CO2H 200 g give CH2:CHCH2OCF2CF(CF3)OCF2CF2OCF(CF3)CO2SiMe3, 80 g of which was heaced with 56.3 g tris(2,2,2-trifluoroethoxy)silane and 0.01 g H2PtCl6 in PhMe at 70° to give (CF3CH2)3SiCH2CH2CH2OCF2CF(CF3)OCF2CF2OCF(CF3)CO2SiMe3 (I). A compounded OH-terminated di-Me siloxane containing 0.5 phr I was cured at ambient temperature to give a rubber with tensile strength 20 and kg/cm2, and elongation 350 and 270%, after 0 and 7 days, resp., at 200°.
ACCESSION NUMBER: 1991:473430 CAPLUS
DOCUMENT NUMBER: 115:73430
TITLE: Preparation of fluorinated carboxylic acid derivatives for use in silicone rubber vulcanization
INVENTOR(S): Satoh, Shinichi; Koike, Noriyuki; Fujii, Hideki
PATENT ASSIGNEE(S): Shin-Btsu Chemical Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 29 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

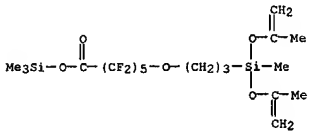
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 411666	A2	19910206	EP 1990-114990	19900803
EP 411666	A3	19920902		
EP 411666	B1	19961106		
R: DE, FR, GB				
JP 03066641	A2	19910322	JP 1989-202114	19890803
JP 06060125	B4	19940810		
US 5194648	A	19930316	US 1990-562321	19900803

PRIORITY APPLN. INFO.: JP 1989-202114 19890803
OTHER SOURCE(S): MARPAT 115:73430
IT **133304-64-0P 133304-65-1P 133304-66-2P 133304-67-3P 133304-68-4P 133304-71-9P 133304-73-1P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)
RN 133304-64-0 CAPLUS
CN Hexanoic acid, 2,2,3,3,4,4,5,5,6,6-decafluoro-6-[3-(trimethoxysilyl)propoxy]-, trimethylsilyl ester (9CI) (CA INDEX NAME)

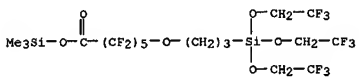
L6 ANSWER 165 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



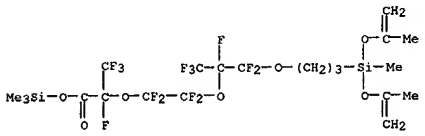
RN 133304-65-1 CAPLUS
CN Hexanoic acid, 2,2,3,3,4,4,5,5,6,6-decafluoro-6-[3-[methylbis[(1-methylethenyl)oxy]silyl]propoxy]-, trimethylsilyl ester (9CI) (CA INDEX NAME)



RN 133304-66-2 CAPLUS
CN Hexanoic acid, 2,2,3,3,4,4,5,5,6,6-decafluoro-6-[3-[tris(2,2,2-trifluoroethoxy)silyl]propoxy]-, trimethylsilyl ester (9CI) (CA INDEX NAME)



RN 133304-67-3 CAPLUS
CN 3,8,11,14-Tetraoxa-4-silahexadec-1-en-16-oic acid, 9,9,10,12,12,13,13,15-octafluoro-2,4-dimethyl-4-[(1-methylethenyl)oxy]-10,15-bis(trifluoromethyl)-, trimethylsilyl ester (9CI) (CA INDEX NAME)



RN 133304-68-4 CAPLUS
CN 3,8,11,14-Tetraoxa-4-silahexadecan-16-oic acid, 1,1,1,9,9,10,12,12,13,13,15-undecafluoro-4,4-bis(2,2,2-trifluoroethoxy)-10,15-bis(trifluoromethyl)-, trimethylsilyl ester (9CI) (CA INDEX NAME)

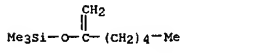
L6 ANSWER 166 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

AB Reaction of **perfluoroalkyl** iodides with silyl enol ethers mediated by Et3B in the presence of base such as 2,6-dimethylpyridine provides mixts. of **perfluoroalkylated** trialkylsilyl enol ethers and α- **perfluoroalkylated** ketones. The yield and distribution of the products heavily depend on the nature of base employed. Treatment of a reaction mixture consisting of **perfluoroalkylated** silyl enol ether and α-**perfluoroalkylated** ketone with concentrated HCl in THF gives α-**perfluoroalkylated** ketone as a single product. Reaction of ketene silyl acetals with **perfluoroalkyl** iodides in the absence of base affords α- **perfluoroalkylated** esters in excellent yields.

ACCESSION NUMBER: 1991:471701 CAPLUS
DOCUMENT NUMBER: 115:71701
TITLE: Triethylborane induced **perfluoroalkylation** of silyl enol ethers and ketene silyl acetals with **perfluoroalkyl** iodides
AUTHOR(S): Miura, Katsukiyo; Takeyama, Yoshihiro; Oshima, Koichiro; Utimoto, Kiitiro
CORPORATE SOURCE: Fac. Eng., Kyoto Univ., Kyoto, 606, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1991), 64(5), 1542-53
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 115:71701

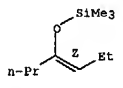
IT **19980-26-8 72551-28-1 77078-59-2**
101128-23-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(**perfluoroalkylation** of, in presence of triethylborane)

RN 19980-26-8 CAPLUS
CN Silane, trimethyl[(1-methylenehexyl)oxy]- (9CI) (CA INDEX NAME)



RN 72551-28-1 CAPLUS
CN Silane, trimethyl[[(1Z)-1-propyl-1-butenyl]oxy]- (9CI) (CA INDEX NAME)

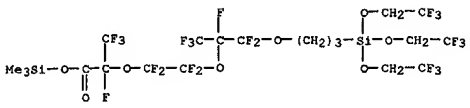
Double bond geometry as shown.



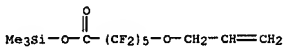
RN 77078-59-2 CAPLUS
CN Silane, trimethyl[[(1E)-1-propyl-1-butenyl]oxy]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

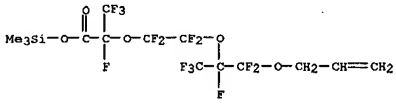
L6 ANSWER 165 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



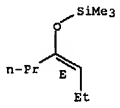
RN 133304-71-9 CAPLUS
CN Hexanoic acid, 2,2,3,3,4,4,5,5,6,6-decafluoro-6-(2-propenyloxy)-, trimethylsilyl ester (9CI) (CA INDEX NAME)



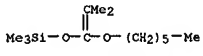
RN 133304-73-1 CAPLUS
CN Propanoic acid, 2-[2-[1-[difluoro(2-propenyloxy)methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,2-tetrafluoroethoxy]-2,3,3,3-tetrafluoro-, trimethylsilyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 166 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



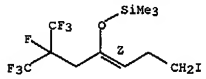
RN 101128-23-8 CAPLUS
CN Silane, [[1-(hexyloxy)-2-methyl-1-propenyl]oxy]trimethyl- (9CI) (CA INDEX NAME)



IT **135066-73-8P 135066-95-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and acidic hydrolysis of)

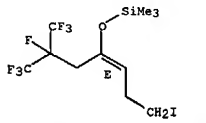
RN 135066-73-8 CAPLUS
CN Silane, [[4-iodo-1-[2,3,3,3-tetrafluoro-2-(trifluoromethyl)propyl]-1-butenyl]oxy]trimethyl-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 135066-95-4 CAPLUS
CN Silane, [[4-iodo-1-[2,3,3,3-tetrafluoro-2-(trifluoromethyl)propyl]-1-butenyl]oxy]trimethyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

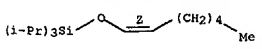


IT **80522-49-2P 88413-59-6P 89683-93-2P**
101128-26-1P 133464-84-3P 133464-85-4P
135066-71-6P 135067-00-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and **perfluoroalkylation** of, in presence of triethylborane)

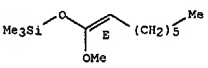
RN 80522-49-2 CAPLUS
CN Silane, (1-heptenyloxy)tris(1-methylethyl)-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



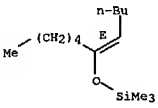
RN 88413-59-6 CAPLUS
CN Silane, [(1-methoxy-1-octenyl)oxy]trimethyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



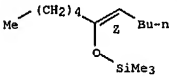
RN 89683-93-2 CAPLUS
CN Silane, trimethyl[(1-pentyl-1-hexenyl)oxy]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



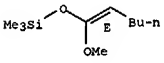
RN 101128-26-1 CAPLUS
CN Silane, trimethyl[(1-pentyl-1-hexenyl)oxy]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



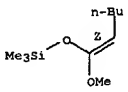
RN 133464-84-3 CAPLUS
CN Silane, [(1-methoxy-1-hexenyl)oxy]trimethyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

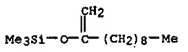


RN 133464-85-4 CAPLUS
CN Silane, [(1-methoxy-1-hexenyl)oxy]trimethyl-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

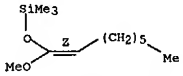


RN 135066-71-6 CAPLUS
CN Silane, trimethyl[(1-methylenedecyl)oxy]- (9CI) (CA INDEX NAME)



RN 135067-00-4 CAPLUS
CN Silane, [(1-methoxy-1-octenyl)oxy]trimethyl-, (Z)- (9CI) (CA INDEX NAME)

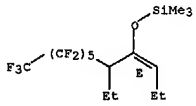
Double bond geometry as shown.



IT **135066-67-0P 135066-68-1P 135066-69-2P**
135066-83-0P 135066-84-1P 135066-85-2P
135066-87-4P 135066-88-5P 135066-89-6P
135066-91-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

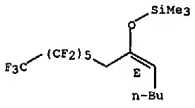
RN 135066-67-0 CAPLUS
CN Silane, [(2-ethyl-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-propylideneoctyl)oxy]trimethyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



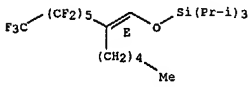
RN 135066-68-1 CAPLUS
CN Silane, trimethyl[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-pentylideneoctyl)oxy]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



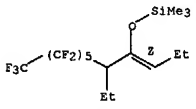
RN 135066-69-2 CAPLUS
CN Silane, tris(1-methylethyl)[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-2-pentyl-1-octenyl)oxy]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



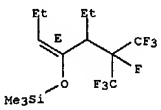
RN 135066-83-0 CAPLUS
CN Silane, [(2-ethyl-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-propylideneoctyl)oxy]trimethyl-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



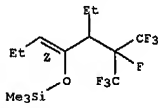
RN 135066-84-1 CAPLUS
CN Silane, [[1-[1-ethyl-2,3,3,3-tetrafluoro-2-(trifluoromethyl)propyl]-1-butenyl]oxy]trimethyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



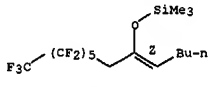
RN 135066-85-2 CAPLUS
CN Silane, [[1-[1-ethyl-2,3,3,3-tetrafluoro-2-(trifluoromethyl)propyl]-1-butenyl]oxy]trimethyl-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



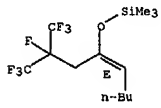
RN 135066-87-4 CAPLUS
CN Silane, trimethyl[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-pentylideneoctyl)oxy]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



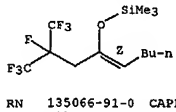
RN 135066-88-5 CAPLUS
CN Silane, trimethyl[[1-[2,3,3,3-tetrafluoro-2-(trifluoromethyl)propyl]-1-hexenyl]oxy]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



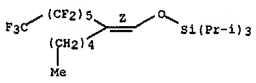
RN 135066-89-6 CAPLUS
CN Silane, trimethyl[[1-[2,3,3,3-tetrafluoro-2-(trifluoromethyl)propyl]-1-hexenyl]oxy]-, (Z)- (9CI) (CA INDEX NAME)

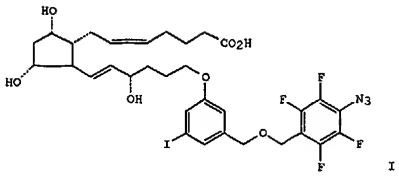
Double bond geometry as shown.



RN 135066-91-0 CAPLUS
CN Silane, tris(1-methylethyl)[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-2-pentyl-1-octenyl)oxy]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.





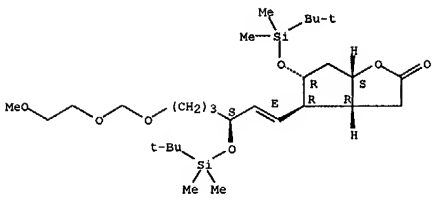
I

AB The synthesis of a potential prostaglandin F2α photoaffinity probe involved the preparation of 18-phenoxy-19,20-bisnorprostanoid I in which the phenoxy group possessed an iodine substituent and a **perfluorinated** aryl azide.

ACCESSION NUMBER: 1991:449178 CAPLUS
DOCUMENT NUMBER: 115:49178
TITLE: Prostaglandin F2α photoaffinity probes: 18-phenoxy-19,20-bisnorprostanoids bearing **perfluorinated** aryl azides
AUTHOR(S): Golinski, Miroslaw; Heine, Michal; Watt, David S.
CORPORATE SOURCE: Dep. Chem., Univ. Kentucky, Lexington, KY, 40506, USA
SOURCE: Tetrahedron Letters (1991), 32(12), 1553-6
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English

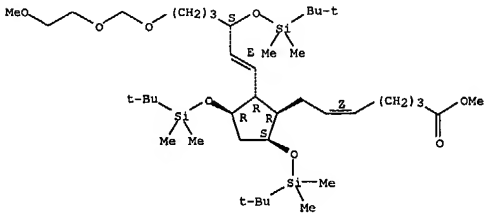
IT **134828-89-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and Wittig reaction of, with carboxybutylidenephosphorane)
RN 134828-89-0 CAPLUS
CN 2H-Cyclopenta[b]furan-2-one, 5-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-4-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-6-[(2-methoxyethoxy)methoxy]-1-hexenyl]hexahydro-, [3aR-[3aα,4α(1E,3S*),5β,6aα]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



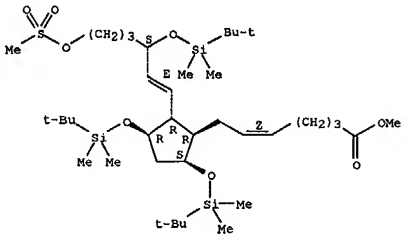
IT **134852-88-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and ether cleavage of)
RN 134852-88-3 CAPLUS
CN 5-Heptenoic acid, 7-[3,5-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-6-[(2-methoxyethoxy)methoxy]-1-hexenyl]cyclopentyl]-, methyl ester, [1R-[1α(Z),2β(1E,3S*),3.alpha.,5α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



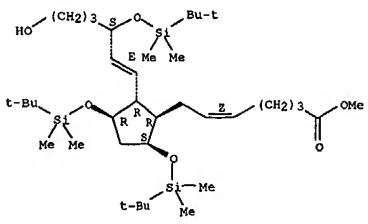
IT **134828-93-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and etherification of, with azidobenzyloxymethylphenol)
RN 134828-93-6 CAPLUS
CN 5-Heptenoic acid, 7-[3,5-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-6-[(methylsulfonyl)oxy]-1-hexenyl]cyclopentyl]-, methyl ester, [1R-[1α(Z),2β(1E,3S*),3.alpha.,5α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



IT **134828-92-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and mesylation of)
RN 134828-92-5 CAPLUS
CN 5-Heptenoic acid, 7-[3,5-bis[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-6-hydroxy-1-hexenyl]cyclopentyl]-, methyl ester, [1R-[1α(Z),2β(1E,3S*),3α,5α]]- (9CI) (CA INDEX NAME)

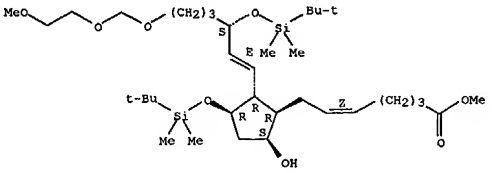
Absolute stereochemistry.
Double bond geometry as shown.



IT **134828-90-3P 134828-91-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and silylation of)
RN 134828-90-3 CAPLUS
CN 5-Heptenoic acid, 7-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-6-[(2-methoxyethoxy)methoxy]-1-hexenyl]-5-

L6 ANSWER 167 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
hydroxycyclopentyl]-, methyl ester, [1R-[1α(Z),2β(1E,3S*),3.alp
ha.,5α]]- (9CI) (CA INDEX NAME)

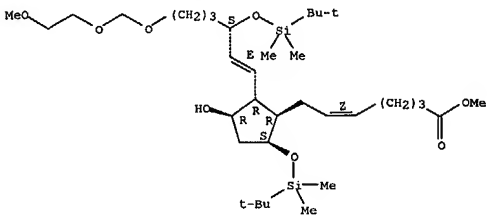
Absolute stereochemistry.
Double bond geometry as shown.



RN 134828-91-4 CAPLUS
CN 5-Heptenoic acid,
7-[5-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-[3-[[(1,1-

dimethylethyl)dimethylsilyl]oxy]-6-[(2-methoxyethoxy)methoxy]-1-hexenyl]-3-
hydroxycyclopentyl]-, methyl ester, [1R-[1α(Z),2β(1E,3S*),3.alp
ha.,5α]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

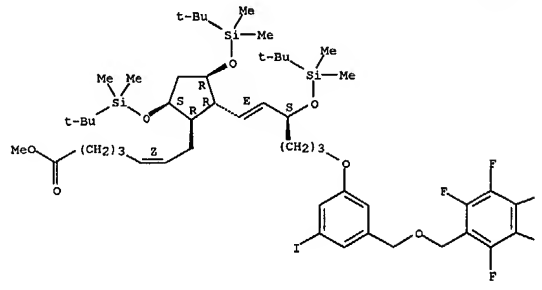


IT **134828-96-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, desilylation, and saponification of)
RN 134828-96-9 CAPLUS
CN 5-Heptenoic acid, 7-[2-[6-[3-[[(4-azido-2,3,5,6-
tetrafluorophenyl)methoxy]methyl]-5-iodophenoxy]-3-[[(1,1-
dimethylethyl]dimethylsilyl]oxy]-1-hexenyl]-3,5-bis[[(1,1-
dimethylethyl)dimethylsilyl]oxy]cyclopentyl]-, methyl ester,
[1R-[1α(Z),2β(1E,3S*),3α,5α]]- (9CI) (CA INDEX
NAME)

L6 ANSWER 167 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



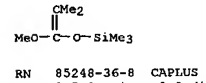
PAGE 1-B

L6 ANSWER 168 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB Block copolymers are prepared from **perfluoroether** polymers and polymers of acrylic esters, acrylamides, and maleimides. Thus, PMMA with trimethylsiloxy end groups was reacted with poly(hexafluoropropylene oxide) (d.p. 5.2) containing one acid fluoride group/mol. to prepare a block
copolymer which formed a coating on glass with water contact angle 94°, compared with 62 for PMMA.
ACCESSION NUMBER: 1991:186410 CAPLUS
DOCUMENT NUMBER: 114:186410
TITLE: Block copolymers of **perfluoroether** and hydrocarbon monomers
INVENTOR(S): Cohen, Gordon Mark
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: PCT Int. Appl., 31 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

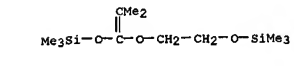
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9102761	A1	19910307	WO 1990-US4036	19900724
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE				
US 5112917	A	19920512	US 1989-395387	19890818
CA 2064185	AA	19910219	CA 1990-2064185	19900724
JP 04507428	T2	19921224	JP 1990-511063	19900724
EP 541532	A1	19930519	EP 1990-911506	19900724
R: BE, DE, GB, IT				

PRIORITY APPLN. INFO.: US 1989-395387 19890818
WO 1990-US4036 19900724

IT **31469-15-5DP**, reaction products with Me methacrylate and poly(hexafluoropropylene) oxide) **85248-36-8DP**, reaction products with Me methacrylate and poly(hexafluoropropylene) oxide)
RL: PREP (Preparation)
(preparation of, for surface property modification)
RN 31469-15-5 CAPLUS
CN Silane, [(1-methoxy-2-methyl-1-propenyl)oxy]trimethyl- (9CI) (CA INDEX NAME)



RN 85248-36-8 CAPLUS
CN 3,5,8-Trioxa-2,9-disiladecane,
2,2,9,9-tetramethyl-4-(1-methylethylidene)-
(9CI) (CA INDEX NAME)



L6 ANSWER 168 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L6 ANSWER 169 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

AB The title compds (RO)nSiR13-n(CH2)3OCF2ZCO2X (I; R, R1 = substituted or unsubstituted hydrocarbyl group; Z = divalent **perfluoroalkyl** or **perfluoro** polyether group; X = H, SiR23; n = 2, 3) were prepared for use as room-temperature vulcanizing agents for organopolysiloxane elastomers, which in turn were tested as metal corrosion inhibitors. I were prepared by hydrosilylation of alkenyl fluorinated carboxylic acid derivs. with (RO)nSiR13-nH in the presence of a catalyst, preferably H2PtCl6. E.g., reaction of 70.0 g CH2:CHCH2O(CF2)5CO2SiMe3 with 24.2 g (MeO)3SiH in PhMe containing 0.01 g of a 10% aqueous solution of H2PtCl6 gave 95% (MeO)3Si(CH2)3O(CF2)5CO2SiMe3.

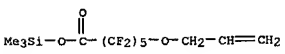
ACCESSION NUMBER: 1991:185743 CAPLUS
DOCUMENT NUMBER: 114:185743
TITLE: Fluorinated carboxylic acid derivatives and their preparation
INVENTOR(S): Satoh, Shinichi; Koike, Noriyuki; Fujii, Hideki
PATENT ASSIGNEE(S): Shin-Etsu Chemical Co., Ltd., Japan
SOURCE: Ger. Offen., 22 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4024720	A1	19910207	DE 1990-4024720	19900803
DE 4024720	C2	19991125		
JP 03066695	A2	19910322	JP 1989-202115	19890803
JP 07010872	B4	19950208		
US 5101057	A	19920331	US 1990-562320	19900803

PRIORITY APPLN. INFO.: JP 1989-202115 19890803
OTHER SOURCE(S): CASREACT 114:185743

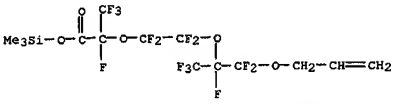
IT **133304-71-9P 133304-73-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and silylation of)

RN 133304-71-9 CAPLUS
CN Hexanoic acid, 2,2,3,3,4,4,5,5,6,6-decafluoro-6-(2-propenyloxy)-, trimethylsilyl ester (9CI) (CA INDEX NAME)



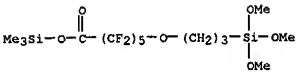
RN 133304-73-1 CAPLUS
CN Propanoic acid, 2-[2-[1-[difluoro(2-propenyloxy)methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,2-tetrafluoroethoxy]-2,3,3,3-tetrafluoro-, trimethylsilyl ester (9CI) (CA INDEX NAME)

L6 ANSWER 169 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

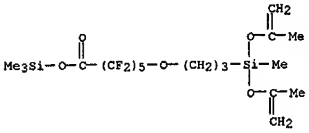


IT **133304-64-0P 133304-65-1P 133304-66-2P 133304-67-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as vulcanizing agent)

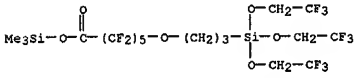
RN 133304-64-0 CAPLUS
CN Hexanoic acid, 2,2,3,3,4,4,5,5,6,6-decafluoro-6-[3-(trimethoxysilyl)propoxy]-, trimethylsilyl ester (9CI) (CA INDEX NAME)



RN 133304-65-1 CAPLUS
CN Hexanoic acid, 2,2,3,3,4,4,5,5,6,6-decafluoro-6-[3-[methylbis[(1-methylethenyl)oxy]silyl]propoxy]-, trimethylsilyl ester (9CI) (CA INDEX NAME)

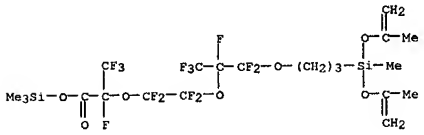


RN 133304-66-2 CAPLUS
CN Hexanoic acid, 2,2,3,3,4,4,5,5,6,6-decafluoro-6-[3-[tris(2,2,2-trifluoroethoxy)silyl]propoxy]-, trimethylsilyl ester (9CI) (CA INDEX NAME)



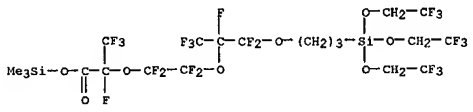
RN 133304-67-3 CAPLUS
CN 3,8,11,14-Tetraoxa-4-silahexadec-1-en-16-oic acid, 9,9,10,12,12,13,13,15-octafluoro-2,4-dimethyl-4-[(1-methylethenyl)oxy]-10,15-

L6 ANSWER 169 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
bis(trifluoromethyl)-, trimethylsilyl ester (9CI) (CA INDEX NAME)



IT **133304-68-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, hydrolysis, and vulcanizing agent, for synthetic rubber)

RN 133304-68-4 CAPLUS
CN 3,8,11,14-Tetraoxa-4-silahexadecan-16-oic acid, 1,1,1,9,9,10,12,12,13,13,15-undecafluoro-4,4-bis(2,2,2-trifluoroethoxy)-10,15-bis(trifluoromethyl)-, trimethylsilyl ester (9CI) (CA INDEX NAME)



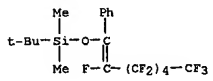
L6 ANSWER 170 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

AB Reaction of a **perfluoroorganometallic** (Mg or Li) reagent with benzoylsilanes depends on the metals, the substituents, and reaction conditions. Thus, reaction of RFCF2CF2MgI (RF = C4F9) with PhCOSiMe3 in Et2O followed by acidic workup gave 78% RFCF2CF2C(OH)PhSiMe3, whereas reaction of RFCF2CF2I with PhCOSiMe3 in the presence of MeLi-LiBr in Et2O followed by acidic workup gave 67% RFCF:CFCOPh along with 21% RFCF:CFC(OH)PhCH3.

ACCESSION NUMBER: 1991:143523 CAPLUS
DOCUMENT NUMBER: 114:143523
TITLE: Mixed organofluorine-organosilicon chemistry: reaction of **perfluoroorganometallic** reagents with benzoylsilane
AUTHOR(S): Portella, Charles; Dondy, Boniface
CORPORATE SOURCE: Lab. Rearrange. Therm. Photochim., Fac. Sci., Reims, 51062, Fr.
SOURCE: Tetrahedron Letters (1991), 32(1), 83-6
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 114:143523

IT **132868-68-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 132868-68-9 CAPLUS
CN Silane, (1,1-dimethylethyl)[(2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-1-phenyl-1-heptenyl)oxy]dimethyl- (9CI) (CA INDEX NAME)



L6 ANSWER 171 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

AB Treating organic compds. containing unsatd. carbon-carbon bond with **perfluoroalkyl** iodides in presence of organoboron compds. gives the corresponding **perfluoroalkyl**-containing compds. This reaction proceeds regio- and stereoselectively when using terminal alkynes as materials. Thus, HC.tplbond.C(CH2)9Me and F3C(CF2)5I were stirred with Et3B in hexane at room temperature for 5 h to give 94% (E)-F3C(CF2)5CH:CI(CH2)9Me.

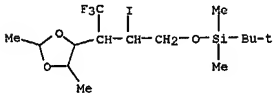
ACCESSION NUMBER: 1991:142292 CAPLUS
DOCUMENT NUMBER: 114:142292
TITLE: Method of **perfluoroalkylation**
INVENTOR(S): Uchimoto, Kiichiro; Oshima, Koichiro
PATENT ASSIGNEE(S): Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02209816	A2	19900821	JP 1989-29645	19890210

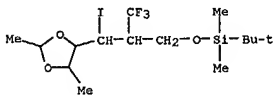
PRIORITY APPLN. INFO.: JP 1989-29645 19890210
OTHER SOURCE(S): MARPAT 114:142292

IT **132665-04-4P 132679-99-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 132665-04-4 CAPLUS
CN Silane, [3-(2,5-dimethyl-1,3-dioxolan-4-yl)-4,4,4-trifluoro-2-iodobutoxy](1,1-dimethylethyl)dimethyl- (9CI) (CA INDEX NAME)



RN 132679-99-3 CAPLUS
CN Silane, [2-[(2,5-dimethyl-1,3-dioxolan-4-yl)iodomethyl]-3,3,3-trifluoropropoxy](1,1-dimethylethyl)dimethyl- (9CI) (CA INDEX NAME)



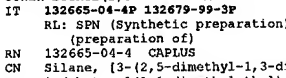
L6 ANSWER 172 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

AB Reaction of **perfluoroalkyl** iodides with silyl enol ethers mediated by Et3B in the presence of a base provides **perfluoroalkylated** silyl enol ethers. Meanwhile, treatment of germyl enol ethers with **perfluoroalkyl** iodides affords α-**perfluoroalkyl** ketones in good yields.

ACCESSION NUMBER: 1991:81935 CAPLUS
DOCUMENT NUMBER: 114:81935
TITLE: Triethylborane induced **perfluoroalkylation** of silyl enol ethers or germyl enol ethers with **perfluoroalkyl** iodides
AUTHOR(S): Miura, Katsukiyo; Taniguchi, Masahiko; Nozaki, Kyoko; Oshima, Koichiro; Utimoto, Kiitiro
CORPORATE SOURCE: Fac. Eng., Kyoto Univ., Kyoto, 606, Japan
SOURCE: Tetrahedron Letters (1990), 31(44), 6391-4
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 114:81935

IT **19980-26-8 63547-54-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(borane-induced **perfluoroalkylation** of)

RN 19980-26-8 CAPLUS
CN Silane, trimethyl[(1-methylenehexyl)oxy]- (9CI) (CA INDEX NAME)



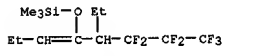
RN 63547-54-6 CAPLUS
CN Silane, trimethyl[(1-propyl-1-butenyl)oxy]- (9CI) (CA INDEX NAME)

IT **132091-50-0P 132091-52-2P 132091-54-4P**
132091-56-6P 132091-57-7P 132111-69-4P
RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, from **perfluoroalkylation** of silyl enol ethers)

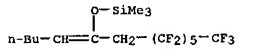
RN 132091-50-0 CAPLUS
CN Silane, [(2-ethyl-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-propylideneoctyl)oxy]trimethyl- (9CI) (CA INDEX NAME)

RN 132091-52-2 CAPLUS
CN Silane, [(2-ethyl-3,3,4,4,5,5,5-heptafluoro-1-propylidenepentyl)oxy]trimethyl- (9CI) (CA INDEX NAME)

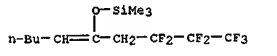
L6 ANSWER 172 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 132091-54-4 CAPLUS
CN Silane, trimethyl[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-pentylideneoctyl)oxy]- (9CI) (CA INDEX NAME)

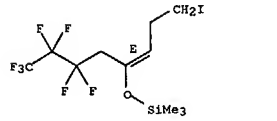


RN 132091-56-6 CAPLUS
CN Silane, [[1-(2,2,3,3,4,4,4-heptafluorobutyl)-1-hexenyl]oxy]trimethyl- (9CI) (CA INDEX NAME)



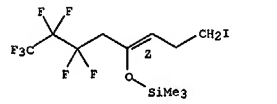
RN 132091-57-7 CAPLUS
CN Silane, [[3,3,4,4,5,5,5-heptafluoro-1-(3-iodopropylidene)pentyl]oxy]trimethyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



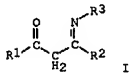
RN 132111-69-4 CAPLUS
CN Silane, [[3,3,4,4,5,5,5-heptafluoro-1-(3-iodopropylidene)pentyl]oxy]trimethyl-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L6 ANSWER 172 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L6 ANSWER 173 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
GI



I

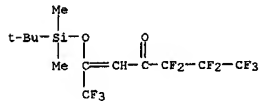
AB Fluorinated B-ketoimine ligands and highly volatile β-ketoiminato metal complexes of the ligands are synthesized by silylating a fluorinated
β-diketone to form a silylenolether, and subsequently reacting the silylenolether with a primary amine to form the desired ligand having the formula I, wherein R1 and R2 are independently linear or branched, **perfluorinated**, C1-8 alkyl groups and R3 is any organic functionality, such as a C1-8 alkyl, Ph, or hydroxyalkyl group, all of which can be partially or fully fluorinated. The corresponding metal complex is formed by treating the ligand with a metal halide.

ACCESSION NUMBER: 1991:74210 CAPLUS
DOCUMENT NUMBER: 114:74210
TITLE: Volatile fluorinated beta-ketoimines and associated metal complexes
INVENTOR(S): Norman, John Anthony Thomas
PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., USA
SOURCE: Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

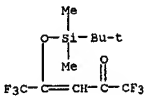
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 369297	A1	19900523	EP 1989-120616	19891107
EP 369297	B1	19930804		
R: BE, CH, DE, FR, GB, LI, NL				
US 4950790	A	19900821	US 1988-270719	19881114
US 5008415	A	19910416	US 1989-411275	19890922
CA 1330803	A1	19940719	CA 1989-615128	19890929
JP 02188564	A2	19900724	JP 1989-295985	19891114
JP 05085540	B4	19931207		

PRIORITY APPLN. INFO.: US 1988-270719 19881114
OTHER SOURCE(S): MARPAT 114:74210
IT **131772-64-0P 131772-65-1P 131772-66-2P 131772-67-3P 131772-68-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in volatile ligand preparation for metal complexes)
RN 131772-64-0 CAPLUS
CN 3-Penten-2-one, 4-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,1,1,5,5,5-hexafluoro- (9CI) (CA INDEX NAME)

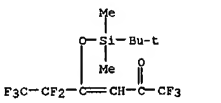
L6 ANSWER 173 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



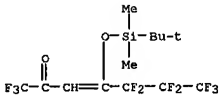
RN 131772-65-1 CAPLUS
CN 3-Hexen-2-one, 4-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,1,1,5,5,6,6,6-octafluoro- (9CI) (CA INDEX NAME)



RN 131772-66-2 CAPLUS
CN 4-Hexen-3-one, 5-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,1,1,2,2,6,6,6-octafluoro- (9CI) (CA INDEX NAME)



RN 131772-67-3 CAPLUS
CN 3-Hepten-2-one, 4-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,1,1,5,5,6,6,7,7,7-decafluoro- (9CI) (CA INDEX NAME)



RN 131772-68-4 CAPLUS
CN 2-Hepten-4-one, 2-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1,1,1,5,5,6,6,7,7,7-decafluoro- (9CI) (CA INDEX NAME)

L6 ANSWER 173 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L6 ANSWER 174 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB **Perfluoroalkyl**-substituted compds. were prepared in high yields by fluoride-initiated reaction of carbonyl compds. with (**perfluoroalkyl**)trimethylsilanes CF3(CF2)nSiMe3 (I; n = 0-2). Fluoride-initiated addition of I to a carbonyl group generates an oxyanionic
species which then further catalyzes the reaction. Even enolizable carbonyl compds. react cleanly under the reaction conditions. A study of the scope of the reactivity of I (n = 0) toward other carbonyl groups in esters, lactones and an acid chloride was also carried out. Thus, I (n = 0) reacts cleanly with five- and six-membered ring lactones. However, unactivated esters do not react under the reaction conditions.

ACCESSION NUMBER: 1991:61241 CAPLUS
DOCUMENT NUMBER: 114:61241
TITLE: Preparation of trifluoromethyl and other **perfluoroalkyl** compounds with (**perfluoroalkyl**)trimethylsilanes
AUTHOR(S): Krishnamurti, Ramesh; Bellew, Donald R.; Prakash, G. K. Surya
CORPORATE SOURCE: Donald P. and Katherine B. Loker Hydrocarbon Res. Inst., Univ. South. California, Los Angeles, CA, 90089-1661, USA
SOURCE: Journal of Organic Chemistry (1991), 56(3), 984-9
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 114:61241
IT **131297-08-0P 131297-09-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 131297-08-0 CAPLUS
CN 2-Heptanone, 1,1,1-trifluoro-7-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)

RN 131297-09-1 CAPLUS
CN 3,10-Dioxa-2,11-disiladodecane, 2,2,11,11-tetramethyl-4,4-bis(trifluoromethyl)- (9CI) (CA INDEX NAME)

L6 ANSWER 175 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

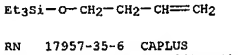
AB Rh(II) **perfluorobutyrate** (I) is an effective catalyst for the alcoholysis of trialkylsilanes at room temperature Primary alcs. react with Et3SiH (II) .apprx.5 times faster than do secondary alcs., and tertiary alcs. are virtually inert. Enhanced selectivity is achieved with Me3CSiMe2H (III). Hydrosilylation of olefinic alcs. is relatively unimportant even with terminal alkenes, but I does promote hydrogenation of 3-phenyl-2-propen-1-ol. Selected diols were silylated with complete regioselectivity in I-catalyzed reactions with either II or III. Methanolysis of (S)-(-)-1-naphthylphenylmethylsilane occurs with nearly complete inversion of configuration at Si, and spectral anal. of the catalytic reaction suggests a mechanism for silane alcoholysis in which the Rh(II) catalyst coordinates with the Si hydride to activate Si for backside nucleophilic attack by the alc.

ACCESSION NUMBER: 1991:6589 CAPLUS
DOCUMENT NUMBER: 114:6589
TITLE: Rhodium(II) **perfluorobutyrate** catalyzed silane alcoholysis. A highly selective route to silyl ethers
AUTHOR(S): Doyle, Michael P.; High, Kenneth G.; Bagheri, Vahid; Pieters, Roland J.; Lewis, Patricia J.; Pearson, Matthew M.
CORPORATE SOURCE: Dep. Chem., Trinity Univ., San Antonio, TX, 78212, USA
SOURCE: Journal of Organic Chemistry (1990), 55(25), 6082-6
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 114:6589

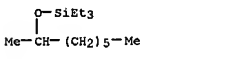
IT **2290-40-6P 13411-57-9P 17957-35-6P 17957-36-7P 126680-66-8P 129541-15-7P 129541-16-8P 129541-17-9P 129541-18-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 2290-40-6 CAPLUS
CN Silane, triethyl(3-phenylpropoxy)- (7CI, 8CI, 9CI) (CA INDEX NAME)

RN 13411-57-9 CAPLUS
CN Silane, (3-butenyloxy)triethyl- (8CI, 9CI) (CA INDEX NAME)



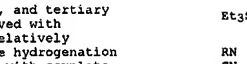
RN 17957-35-6 CAPLUS
CN Silane, triethyl[(1-methylheptyl)oxy]- (8CI, 9CI) (CA INDEX NAME)



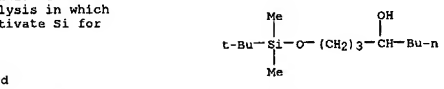
RN 17957-36-7 CAPLUS

L6 ANSWER 175 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

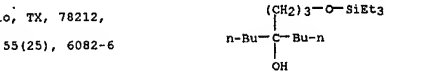
CN Silane, triethyl(octyloxy)- (6CI, 8CI, 9CI) (CA INDEX NAME)



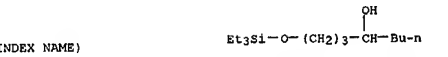
RN 126680-66-8 CAPLUS
CN 4-Octanol, 1-[[(1,1-dimethylethyl)dimethylsilyl]oxy]- (9CI) (CA INDEX NAME)



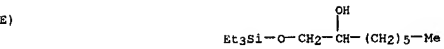
RN 129541-15-7 CAPLUS
CN 5-Nonanol, 5-[3-[(triethylsilyl)oxy]propyl]- (9CI) (CA INDEX NAME)



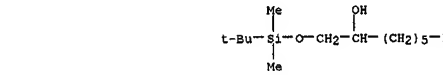
RN 129541-16-8 CAPLUS
CN 4-Octanol, 1-[(triethylsilyl)oxy]- (9CI) (CA INDEX NAME)



RN 129541-17-9 CAPLUS
CN 2-Octanol, 1-[(triethylsilyl)oxy]- (9CI) (CA INDEX NAME)



RN 129541-18-0 CAPLUS
CN 2-Octanol, 1-[[(1,1-dimethylethyl)dimethylsilyl]oxy]- (9CI) (CA INDEX NAME)



L6 ANSWER 176 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

AB The membranes, showing stabilized permeation of gases, are manufactured by forming a thin film of a mixture of poly[(trimethylsilyl)propyne] (I) and siloxanes on a porous support and plasma-treating the surface in the presence of a fluorinated lower (chloro)alkane. The siloxanes may be replaced with poly(trimethylvinylsilane), **perfluoro** aromatic hydrocarbons, or bis(trimethylsilyl) fumarate. Thus, a n-heptane solution of 0.1 g I and 0.01 g hexamethylcyclotrisiloxane was cast on a Millipore filter (microporous cellulose acetate filter with pore diameter 0.22 μm), dried, and subjected to glow discharge in the presence of CF4. The composite membrane showed permeation rate (cm3/cm2-s-cmHg) and permselectivity 10.5 + 10-4 and 2.7 initially, 6.5 + 10-4 and 3.2 after 100 h, and 6.3 + 10-4 and 3.3 after 200 h when tested with O-enriched air at 2 kg/cm2, vs. 44.5 + 10-4 and 1.4, 6.4 + 10-4 and 1.8, and 3.5 + 10-4 and 2.0, resp., for a control without the plasma treatment.

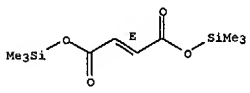
ACCESSION NUMBER: 1990:613522 CAPLUS
DOCUMENT NUMBER: 113:213522
TITLE: Manufacture of gas separation membranes
INVENTOR(S): Fujii, Yoshihisa; Kiuchi, Shin
PATENT ASSIGNEE(S): Nok Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02126927	A2	19900515	JP 1989-23701	19890203
PRIORITY APPLN. INFO.:			JP 1988-109176	19880506
			JP 1988-188090	19880729

IT **17962-03-7**
RL: USES (Uses)
(microporous membranes covered with poly[(trimethylsilyl)propyne] and, plasma-treated, for gas separation)

RN 17962-03-7 CAPLUS
CN 2-Butenedioic acid (2E)-, bis(trimethylsilyl) ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L6 ANSWER 177 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

AB Cement-type substrates with good gloss, and cold, heat, and weather resistance are prepared by applying colored acrylic compns., drying, and overapplying clear solvent compns. containing fluoroolefin polymers having ≥2 reactive functional groups, hardeners, and UV absorbers. Spraying a slate panel with a solution containing Tipaque CR 93, Bu2Sn dilaurate, HC(OMe)3, and Bu acrylate-iso-Bu acrylate-Me methacrylate-γ-methacryloyloxypropyltrimethoxysilane-styrene copolymer, drying at 28° for 2 days, spraying with a solution containing a benzotriazole derivative, Burnock DN 990 S (aliphatic isocyanate), Et vinyl ether-4-hydroxybutyl vinyl ether-tetrafluoroethylene-vinyl pivalate copolymer, and drying at 25° for 10 days gave a panel with gloss 85%, and good cold-hot cycle (18 h in 20° H2O, 3 h at -20°, 3 h at +50°) and weather (2000 h) resistance.

ACCESSION NUMBER: 1990:593568 CAPLUS
DOCUMENT NUMBER: 113:193568
TITLE: Coating of cement-type materials with colorful acrylic base layers and clear fluorolefin polymer top layers
INVENTOR(S): Ooka, Masataka; Tanaka, Hiroo; Yoshida, Sadanori; Kawai, Isao; Ozawa, Hiroshi
PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01306478	A2	19891211	JP 1988-136655	19880604
JP 2646662	B2	19970827		

PRIORITY APPLN. INFO.: JP 1988-136655 19880604

IT **127573-75-5**
RL: USES (Uses)
(clear top coatings, with colored acrylic base coatings, cold- and heat- and weather-resistant, for cement-type substrates)

RN 127573-75-5 CAPLUS
CN Neononanoic acid, ethenyl ester, polymer with Burnock DN 980, [4-(ethenyloxy)butoxy]trimethylsilane, ethoxyethene, fluoroethene and tetrafluoroethene (9CI) (CA INDEX NAME)

CM 1

CRN 126710-26-7
CMF C9 H20 O2 Si

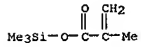
CM 2

CRN 113148-38-2
CMF Unspecified
CCI MAN

L6 ANSWER 177 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

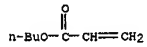
CM 1

CRN 13688-56-7
CMF C7 H14 O2 Si



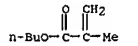
CM 2

CRN 141-32-2
CMF C7 H12 O2



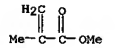
CM 3

CRN 97-88-1
CMF C8 H14 O2



CM 4

CRN 80-62-6
CMF C5 H8 O2

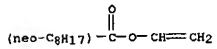


L6 ANSWER 177 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 54423-67-5
CMF C11 H20 O2
CCI IDS



CM 4

CRN 116-14-3
CMF C2 F4

CM 5

CRN 109-92-2
CMF C4 H8 O

CM 6

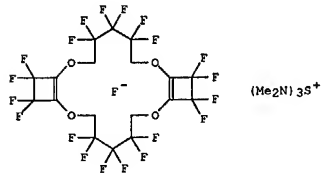
CRN 75-02-5
CMF C2 H3 F

IT **127573-74-4**, Butyl acrylatebutyl methacrylatemethyl methacrylate-trimethylsilyl methacrylate copolymer
RL: USES (Uses)
(colored base coatings, sorbitol epoxy resin-containing, with clear fluoropolymer top coatings, cold- and heat- and weather-resistant, for cement-type substrates)

RN 127573-74-4 CAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with butyl 2-propenoate, methyl 2-methyl-2-propenoate and trimethylsilyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

L6 ANSWER 178 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

GI



I

AB The reaction of tris(dimethylamino)sulfonium trimethyldifluorosilicate with a fluorinated macrocyclic ether provides a novel fluoride ion nesting complex I. X-ray crystal structure anal. shows that the central fluoride is held within the chiral cavity (C2 symmetry) by interaction with 4 CH2 groups. The nearest tris(dimethylamino)sulfonium cation serves as a lid for the complex anion. The 18-membered ring undergoes substantial conformational change to accommodate the fluoride ion guest. NMR spectra show that the central fluoride is tightly bound. Multiple pathways for enantiomerization are found, and the preferred pathway depends upon the temperature Measured rate consts. for the pair-wise exchange of diastereotopic nuclei give activation parameters for one "normal" enantiomerization process. At lower temps., anti-Arrhenius behavior is observed for another conformational process in which the rate of exchange of geminally coupled nuclei increases as the temperature decreases. Ab initio calcns. on a model of the anion complex indicate a min.-energy geometry similar to that observed in the crystal structure of the salt.

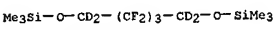
ACCESSION NUMBER: 1990:591317 CAPLUS
DOCUMENT NUMBER: 113:191317
TITLE: Fluorinated macrocyclic ethers as fluoride ion hosts. Novel structures and dynamic properties
AUTHOR(S): Farnham, W. B.; Roe, D. C.; Dixon, D. A.; Calabrese, J. C.; Harlow, R. L.
CORPORATE SOURCE: Exp. Stn., E.I. du Pont de Nemours and Co., Inc., Wilmington, DE, 19880-0328, USA
SOURCE: Journal of the American Chemical Society (1990), 112(21), 7707-18
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 113:191317

IT **54494-06-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclocondensation of, with pentanediol bis(pentafluorocyclobutenyl) ether)

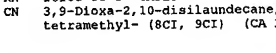
RN 54494-06-3 CAPLUS
CN 3,9-Dioxa-2,10-disilaundecane, 2,2,10,10-tetramethyl- (9CI) (CA INDEX

L6 ANSWER 178 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
NAME)

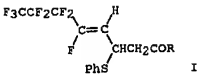
IT **129873-06-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and condensation of, with **perfluorocyclobutene**)
RN 129873-06-9 CAPLUS
CN 3,9-Dioxa-2,10-disilaundecane-4,4,8,8-d4,
5,5,6,6,7,7-hexafluoro-2,2,10,10-
tetramethyl- (9CI) (CA INDEX NAME)



IT **16165-58-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclocondensation of, with
bis(pentafluorocyclobutenyl)
fluoroalkyl ether)
RN 16165-58-5 CAPLUS
CN 3,9-Dioxa-2,10-disilaundecane, 5,5,6,6,7,7-hexafluoro-2,2,10,10-tetramethyl- (8CI, 9CI) (CA INDEX NAME)



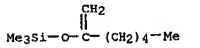
L6 ANSWER 179 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
GI



I

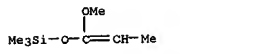
AB Treatment of 3-**perfluoroalkyl**-3-fluoro-2-propenyl Ph or Et sulfoxide with trimethylsilyl triflate and a hindered amine produces the corresponding vinyl thionium ion species, which readily reacts with silyl enol ethers to give δ- **perfluoroalkylated** γ,β-unsatd. carbonyl compds., e.g. I (R = Ph, Me). These compds. are converted into δ- **perfluoroalkyl** -α,β;γ,δ-unsatd. carbonyl compds. in good yields.
ACCESSION NUMBER: 1990:118376 CAPLUS
DOCUMENT NUMBER: 112:118376
TITLE: Generation of **perfluoroalkyl**-substituted vinyl thionium ion intermediates and their reaction with silyl enol ethers. A new route to δ-**perfluoroalkyl**-α,β;γ,δ-unsaturated carbonyl compounds
AUTHOR(S): Ishihara, Takashi; Shinozaki, Takao; Kuroboshi, Manabu
CORPORATE SOURCE: Fac. Eng., Kyoto Univ., Kyoto, 606, Japan
SOURCE: Chemistry Letters (1989), (8), 1369-72
CODEN: CMLTAG; ISSN: 0366-7022
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 112:118376
IT **6651-33-8 19980-26-8 34880-70-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with fluoropropenyl Ph sulfoxide)
RN 6651-33-8 CAPLUS
CN Silane, (1-butenyloxy)trimethyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

RN 19980-26-8 CAPLUS
CN Silane, trimethyl[(1-methylenehexyl)oxy]- (9CI) (CA INDEX NAME)



RN 34880-70-1 CAPLUS
CN Silane, [(1-methoxy-1-propenyl)oxy]trimethyl- (9CI) (CA INDEX NAME)

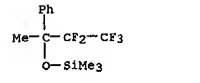
L6 ANSWER 179 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L6 ANSWER 180 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB R1R2(F2n+1Cn)COR3 (I; R1 = H, hydrocarbyl; R2 = hydrocarbyl, **perfluoroalkyl, perfluoroaryl**; R1R2 = atoms to complete a ring; R3 = H, SiMe3; n = 1-6) were prepared by reaction of Me3SiCnF2n+1 with R1R2CO in the presence of a fluoride catalyst followed by optional hydrolysis. Thus, ClSiMe3 in PrCN at -20° was treated with C2F5I and then (Et2N)3PO to give 87% F5C2SiMe3. The latter was added to a mixture of PhCOMe and KF in tetraethylene glycol di-Me ether. The mixture was stirred 6 h at 20-30° to give 85% PhMe(F5C2)COSiMe3.
ACCESSION NUMBER: 1990:56272 CAPLUS
DOCUMENT NUMBER: 112:56272
TITLE: Preparation of **perfluoroalkyl**-containing alcohols using **perfluoroalkyltrimethylsilane** and ketones
INVENTOR(S): Kruse, Alfred; Siegemund, Guenther; Schumann, D. C. Axel; Ruppert, Ingo
PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 7 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

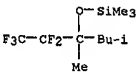
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3805534	A1	19890831	DE 1988-3805534	19880223
EP 330058	A1	19890830	EP 1989-102540	19890215
EP 330058	B1	19911002		
R: CH, DE, FR, GB, IT, LI, NL				
US 4968848	A	19901106	US 1989-313375	19890221
JP 01272591	A2	19891031	JP 1989-40419	19890222

PRIORITY APPLN. INFO.: DE 1988-3805534 19880223
OTHER SOURCE(S): CASREACT 112:56272; MARPAT 112:56272
IT **124898-05-1P 124898-07-3P 124898-09-5P**
124898-11-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, from **perfluoroalkyltrimethylsilane** and ketone)
RN 124898-05-1 CAPLUS
CN Silane, trimethyl[2,2,3,3,3-pentafluoro-1-methyl-1-phenylpropoxy]- (9CI) (CA INDEX NAME)

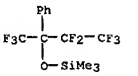


RN 124898-07-3 CAPLUS
CN Silane, [1,3-dimethyl-1-(pentafluoroethyl)butoxy]trimethyl- (9CI) (CA INDEX NAME)

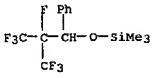
L6 ANSWER 180 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 124898-09-5 CAPLUS
CN Silane, trimethyl[2,2,3,3,3-pentafluoro-1-phenyl-1-(trifluoromethyl)propoxy]- (9CI) (CA INDEX NAME)

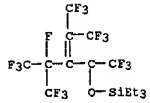


RN 124898-11-9 CAPLUS
CN Silane, trimethyl[2,3,3,3-tetrafluoro-1-phenyl-2-(trifluoromethyl)propoxy]- (9CI) (CA INDEX NAME)



L6 ANSWER 181 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB Photolysis of (CF3)2C:C(COCF3)CF(CF3)2 in the presence of isopropanol gave [(CF3)2C:C[C(OR)CF3]CF(CF3)2]• (I, R = H); when Et3SiH was present, I (R = SiEt3) was formed. The photolysis was also studied in the absence of H donors. The ESR spectra of the radicals were recorded.

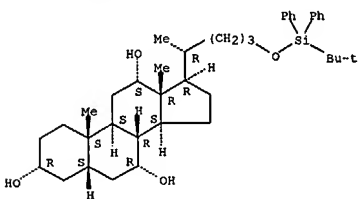
ACCESSION NUMBER: 1990:54812 CAPLUS
DOCUMENT NUMBER: 112:54812
TITLE: Branched fluorinated allyl radicals
AUTHOR(S): Tumanskii, B. L.; Gervits, L. L.; Solodovnikov, S. P.; Makarov, K. N.; Lantseva, L. T.; Bubnov, N. N.
CORPORATE SOURCE: Inst. Elementoorg. Soedin. im. Nesmeyanova, Moscow, USSR
SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1989), (6), 1397-9
CODEN: IASKA6; ISSN: 0002-3353
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 112:54812
IT **124733-13-7P**
RL: PRP (Properties); FORM (Formation, nonpreparative); PREP (Preparation)
(formation and ESR of)
RN 124733-13-7 CAPLUS
CN 2-Butenyl, 4,4,4-trifluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-1-[(triethylsilyl)oxy]-1,3-bis(trifluoromethyl)- (9CI) (CA INDEX NAME)



L6 ANSWER 182 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB Two synthetic routes are presented for the synthesis of bis- and tris(**perfluoroalkenyloxy**)-substituted bile alcs. with an unsubstituted hydroxyl group in the hydrocarbon side chain. The first route involves selective protection of the 24-hydroxyl group of 3α,7α,12α,24-cholantetrol followed by the attachment of 3α,7α,12α-hydroxyl groups to the **perfluoroalkenyloxy** linkages and removal of the protecting group. The second pathway is based on the synthesis of the tris(**perfluoroalkenyloxy**) derivative of 3α,7α,12α-trihydroxy-chol-22-ene [or bis(**perfluoroalkenyloxy**] derivative of 3α,12α-dihydroxy-7-deoxy-chol-22-ene], followed by the hydroboration of the double bond.

ACCESSION NUMBER: 1989:458145 CAPLUS
DOCUMENT NUMBER: 111:58145
TITLE: **Perfluoroalkenyl** ethers of bile alcohols
AUTHOR(S): Malik, A. A.; Sharts, C. M.
CORPORATE SOURCE: Chem. Dep., San Diego State Univ., San Diego, CA, 92182, USA
SOURCE: Journal of Fluorine Chemistry (1988), 41(3), 393-413
CODEN: JFLCAR; ISSN: 0022-1139
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 111:58145
IT **108443-04-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(etherification of, with **perfluoroheptene**)
RN 108443-04-5 CAPLUS
CN Cholane-3,7,12-triol, 24-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-, (3α,5β,7α,12α)- (9CI) (CA INDEX NAME)

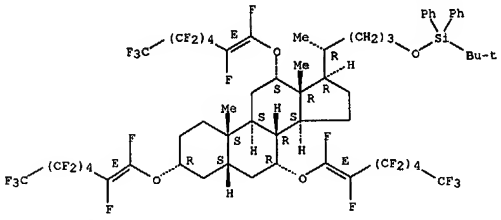
Absolute stereochemistry.



IT **121748-30-9P 121748-31-0P 121748-32-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 121748-30-9 CAPLUS
CN Silane, (1,1-dimethylethyl)diphenyl[[[[3α-(E),5β,7α-(E),12α-(E)]-3,7,12-tris(tridecafluoro-1-heptenyl)oxy]cholan-24-yl]oxy]- (9CI) (CA INDEX NAME)

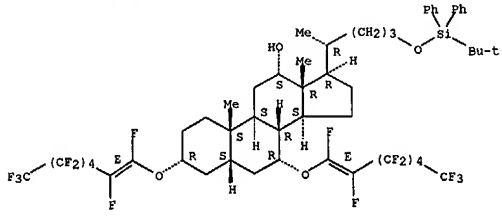
Absolute stereochemistry.
Double bond geometry as shown.

L6 ANSWER 182 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 121748-31-0 CAPLUS
CN Cholan-12-ol, 24-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-3,7-bis[(tridecafluoro-1-heptenyl)oxy]-, [3α(E),5β,7α(E),12.alpha.]- (9CI) (CA INDEX NAME)

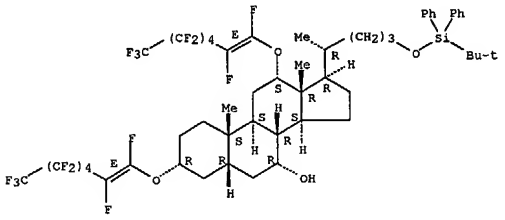
Absolute stereochemistry.
Double bond geometry as shown.



RN 121748-32-1 CAPLUS
CN Cholan-7-ol, 24-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-3,12-bis[(tridecafluoro-1-heptenyl)oxy]-, [3α(E),5β,7α,12.alpha.(E)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

L6 ANSWER 182 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L6 ANSWER 183 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

AB RR1CHCR2:C(OR3)OMR43 [I; R, R1 = H, C1-20 alkyl, aralkyl, cycloalkyl, alkylaryl; R2 = C1-20 alkyl, fluoroalkyl, aryl, PhCH2, cycloalkyl, substituted aminoalkyl, etc.; R3 = **perfluoroalkyl** (); R4 = H, halo, C1-20 alkyl, aryl, alkoxy, PhCH2; M = Si, Sn, Ge] were prepared by heterogeneously catalyzed hydrosilylation of acrylates. MeC(:CH2)CO2Me was added over 65-70 min to a mixt of Et3SiH and Rh/C to give 58-77% Me2C:C(OSiEt3)OMe.

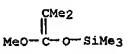
ACCESSION NUMBER: 1989:154566 CAPLUS
DOCUMENT NUMBER: 110:154566
TITLE: Conjugate hydrosilylation of acrylates using supported rhodium catalysts
INVENTOR(S): Bruno, Salvatore A.
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: U.S., 8 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4785126	A	19881115	US 1985-727813	19850426
US 5332852	A	19940726	US 1991-713531	19910603
PRIORITY APPLN. INFO.:			US 1985-727813	19850426
			US 1988-266891	19881103

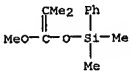
OTHER SOURCE(S): MARPAT 110:154566

IT **31469-15-5P 119401-57-9P 119740-01-1P**
119740-05-5P 119740-06-6P 119740-07-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 31469-15-5 CAPLUS
CN Silane, [(1-methoxy-2-methyl-1-propenyl)oxy]trimethyl- (9CI) (CA INDEX NAME)

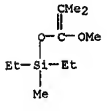


RN 119401-57-9 CAPLUS
CN Silane, [(1-methoxy-2-methyl-1-propenyl)oxy]dimethylphenyl- (9CI) (CA INDEX NAME)

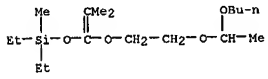


RN 119740-01-1 CAPLUS
CN Silane, diethyl[(1-methoxy-2-methyl-1-propenyl)oxy]methyl- (9CI) (CA INDEX NAME)

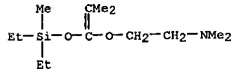
L6 ANSWER 183 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



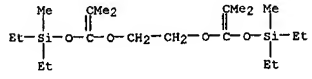
RN 119740-05-5 CAPLUS
CN 4,6,9,11-Tetraoxa-3-silapentadecane, 3-ethyl-3,10-dimethyl-5-(1-methylethylidene)- (9CI) (CA INDEX NAME)



RN 119740-06-6 CAPLUS
CN Ethanamine, 2-[[1-[(diethylmethylsilyl)oxy]-2-methyl-1-propenyl]oxy]-N,N-dimethyl- (9CI) (CA INDEX NAME)

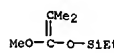


RN 119740-07-7 CAPLUS
CN 4,6,9,11-Tetraoxa-3,12-disilatetradecane, 3,12-diethyl-3,12-dimethyl-5,10-bis(1-methylethylidene)- (9CI) (CA INDEX NAME)



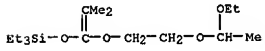
IT **55453-17-3P 119739-99-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, via heterogeneously-catalyzed hydrosilylation)

RN 55453-17-3 CAPLUS
CN Silane, triethyl[(1-methoxy-2-methyl-1-propenyl)oxy]- (9CI) (CA INDEX NAME)

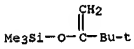


L6 ANSWER 183 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

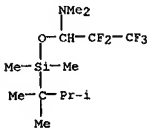
RN 119739-99-0 CAPLUS
CN 4,6,9,11-Tetraoxa-3-silatridecane, 3,3-diethyl-10-methyl-5-(1-methylethylidene)- (9CI) (CA INDEX NAME)



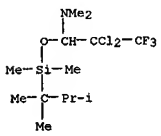
L6 ANSWER 184 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB **Perfluoroalkanesulfonyl** bromides reacted with vinyl bromide, vinyl acetate, and trimethylvinylsilane to give the corresponding adducts with the evolution of SO2. However, reaction with trimethylsilyl enol ether followed by hydrolysis gave only the corresponding α-bromo ketones and **perfluoroalkanesulfinic** acids. **Perfluoroalkanesulfonyl** chloride reacted with the trimethylsilyl ether of pinacolone on UV irradiation to give the corresponding α-**perfluoroalkyl** derivative of pinacolone. Under mild condition, **perfluoroalkanesulfonyl** bromide also brominated phenol and anisole to give the corresponding p-bromo derivs. Sodium α,α-dichlorotrifluoroethanesulfinate reacted with bromine in water at 25° to form α,α-dichlorotrifluoroethanesulfonyl bromide, which was thermally less stable than but similar in reactivity to **perfluoroalkanesulfonyl** bromide.
ACCESSION NUMBER: 1989:94474 CAPLUS
DOCUMENT NUMBER: 110:94474
TITLE: Reaction of **perfluoroalkanesulfonyl** bromide with hetero-atom substituted olefins
AUTHOR(S): Huang, Weiyuan; Chen, Jianlong
CORPORATE SOURCE: Shanghai Inst. Org. Chem., Acad. Sin., Shanghai, Peop. Rep. China
SOURCE: Huaxue Xuebao (1988), 46(9), 895-9
CODEN: HHHPA4; ISSN: 0567-7351
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
OTHER SOURCE(S): CASREACT 110:94474
IT **17510-46-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with **perfluoroalkanesulfonyl** chloride)
RN 17510-46-2 CAPLUS
CN Silane, (2,2-dimethyl-1-methylenepropoxy)trimethyl- (9CI) (CA INDEX NAME)



L6 ANSWER 185 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB Reaction of polyfluoroalkanes [e.g., F(CF2)nI; n = 1,2,7; CF3CCl3] with Me2NCHO, Zn, and Me2CHCMe2SiMe2Cl in THF gave 63-84%-silylated hemiaminals [e.g., F(CF2)nCH(NMe2)OSiMe2CMe2CHMe2, CF3CCl2CH(NMe2)OSiMe2CMe2CHMe2]. Hydrolysis of these hemiaminals with H2SO4 gave 67-85% fluoro aldehydes [e.g., F(CF2)nCHO, CF3CCl2CHO].
ACCESSION NUMBER: 1988:509837 CAPLUS
DOCUMENT NUMBER: 109:109837
TITLE: Fluorine-containing organozinc reagents. Part III. A new formylation reaction of fluoroalkylzinc halides
AUTHOR(S): Lang, Robert Werner
CORPORATE SOURCE: Cent. Res. Lab., Ciba-Geigy A.-G., Basel, 4002, Switz.
SOURCE: Helvetica Chimica Acta (1988), 71(2), 369-73
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 109:109837
IT **110038-33-0P 110038-36-3P 110071-95-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of, aldehyde from)
RN 110038-33-0 CAPLUS
CN 1-Propanamine, 1-[[dimethyl(1,1,2-trimethylpropyl)silyl]oxy]-2,2,3,3,3-pentafluoro-N,N-dimethyl- (9CI) (CA INDEX NAME)

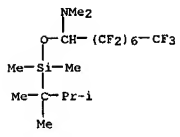


RN 110038-36-3 CAPLUS
CN 1-Propanamine, 2,2-dichloro-1-[[dimethyl(1,1,2-trimethylpropyl)silyl]oxy]-3,3,3-trifluoro-N,N-dimethyl- (9CI) (CA INDEX NAME)

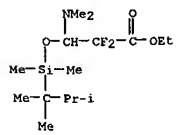


RN 110071-95-9 CAPLUS
CN 1-Octanamine, 1-[[dimethyl(1,1,2-trimethylpropyl)silyl]oxy]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-N,N-dimethyl- (9CI) (CA

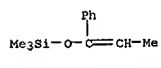
L6 ANSWER 185 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
INDEX NAME)



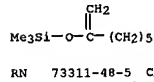
IT **110038-37-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 110038-37-4 CAPLUS
CN Propanoic acid, 3-(dimethylamino)-3-[[dimethyl(1,1,2-trimethylpropyl)silyl]oxy]-2,2-difluoro-, ethyl ester (9CI) (CA INDEX NAME)



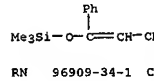
L6 ANSWER 186 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB The reaction of enol trimethylsilyl ethers of carbonyl compds. with (1H,1H-**perfluoroalkyl**)phenyliodonium triflates was promoted successfully by KF in CH2Cl2 at room temperature, giving β-**perfluoroalkyl** carbonyl compds. in good yields. An enol silyl ether of an α,β-unsatd. carbonyl compound gave a δ-**perfluoroalkyl**-α,β-unsatd. carbonyl compound selectively.
ACCESSION NUMBER: 1988:406170 CAPLUS
DOCUMENT NUMBER: 109:6170
TITLE: 1H,1H-**Perfluoroalkylation** of enol silyl ethers with (1H,1H-**perfluoroalkyl**)-phenyliodonium triflates. A new method for the preparation of β- and δ-trifluoromethyl carbonyl compounds and their higher **perfluoroalkyl** homologues
AUTHOR(S): Umemoto, Teruo; Goto, Yoshihiko
CORPORATE SOURCE: Sagami Chem. Res. Cent., Sagamihara, 229, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1987), 60(10), 3823-5
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 109:6170
IT **37471-46-8 55314-45-9 73311-48-5 96909-34-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(trifluoroethylation of)
RN 37471-46-8 CAPLUS
CN Silane, trimethyl[(1-phenyl-1-propenyl)oxy]- (9CI) (CA INDEX NAME)



RN 55314-45-9 CAPLUS
CN Silane, trimethyl[(1-methyleneheptyl)oxy]- (9CI) (CA INDEX NAME)

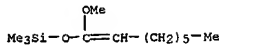


RN 73311-48-5 CAPLUS
CN Silane, trimethyl[(1-phenyl-1,3-butadienyl)oxy]- (9CI) (CA INDEX NAME)



RN 96909-34-1 CAPLUS
CN Silane, [(1-methoxy-1-octenyl)oxy]trimethyl- (9CI) (CA INDEX NAME)

L6 ANSWER 186 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L6 ANSWER 187 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

AB Polymers for hydrogel processed articles such as ophthalmic devices are prepared from CH2:CRCO2CH(CH2OY)(CH2)pX (I) and/or CH2:CRCO2(CH2)pCH(CH2X)OY (II) [R = H, Me; X = F, Cl, Br, iodo, Cl~3 **perfluoroalkylsulfonoxy**, BzO, or CCl3CO2; Y = CCl3CO, CF3(CF2)nCO, or [CH3(CH2)(CH2)m]3Si; n = 0-6, m = 0-3, p = 1-4]. Glycidyl methacrylate was acylated with (CF3CO)2O to give 1,3-bis(trifluoroacetoxy)-2-propyl methacrylate, which was copolymd. with CH2:CMeCO2Me. The resulting copolymer was made into a contact lens.

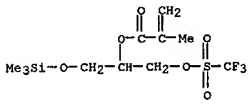
ACCESSION NUMBER: 1987:502699 CAPLUS
DOCUMENT NUMBER: 107:102699
TITLE: Acrylate and methacrylate monomers and polymers for preparing hydrogel processed articles
INVENTOR(S): Hammar, W. James
PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co., USA
SOURCE: U.S., 10 pp. Cont.-in-part of U.S. 4,578,504. CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4638040	A	19870120	US 1985-735377	19850517
US 4578504	A	19860325	US 1983-500782	19830603
CA 1248126	A1	19890103	CA 1984-454651	19840518
JP 60006711	A2	19850114	JP 1984-112913	19840601
JP 07021028	B4	19950308		
US 4801740	A	19890131	US 1987-14609	19870213

PRIORITY APPLN. INFO.: US 1983-500782 19830603
US 1985-798594 19851115

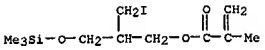
IT **95677-99-9P 110105-17-4P**
RL: PREP (Preparation)
(preparation of, as solvolyzable monomer for hydrogel ophthalmic device manufacture)

RN 95677-99-9 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 1-[[[(trifluoromethyl]sulfonyl]oxy]methyl]-2-[(trimethylsilyl)oxy]ethyl ester (9CI) (CA INDEX NAME)



RN 110105-17-4 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(iodomethyl)-3-[(trimethylsilyl)oxy]propyl ester (9CI) (CA INDEX NAME)

L6 ANSWER 187 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L6 ANSWER 188 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

AB The title compds. FR1fR2fCQ- S+[(NR1R2)(NR3R4()NR5R6)] [R1-R6 = C1-20 alkyl with ≥2 α-H; R1R2, R3R4, R5R6 = (CH2)4, (CH2)2CHY(CH2)2; Y = H, Me; R1f,R2f = F, C1-12 **perfluoroalkyl**, C2-12 **perfluoro**(alkoxyalkyl), C3-12 **perfluoro**(alkoxyalkoxyalkyl), C4-12 **perfluorocycloalkyl**, XR3f; R3f = C3-12 **perfluoroalkylene**, C4-12 **perfluorocycloalkylene**; X = Cl, Br, iodo; R1fR2f = (CF2)n; n = 2-6; Q = O, S], useful as polymerization catalysts and intermediates for solvents, dielec. liqs., pharmaceuticals, and O-carrying liqs. for use in preparing artificial blood, were prepared COF2 reacted with (Me2N)3S+ Me3SiF2- in MeCN at 0° to give 97% (Me2N)3S+ F3CO- which was etherified with PhCH2Br to give 85% PhCH2OCF3.

ACCESSION NUMBER: 1986:514600 CAPLUS
DOCUMENT NUMBER: 105:114600
TITLE: Tris(disubstituted amino)sulfonium **perfluoroalkoxides** and **perfluoroalkylmercaptides**
INVENTOR(S): Farnham, William Brown; Middleton, William Joseph
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: Eur. Pat. Appl., 25 pp. CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 164124	A2	19851211	EP 1985-107020	19850607
EP 164124	A3	19861008		
EP 164124	B1	19881130		
R: BE, DE, FR, GB, IT, NL				
US 4628094	A	19861209	US 1984-618736	19840608
CA 1262730	A1	19891107	CA 1985-483153	19850604
JP 61001658	A2	19860107	JP 1985-124993	19850608
JP 03009102	B4	19910207		
US 4621125	A	19861104	US 1985-754140	19850712
JP 01113403	A2	19890502	JP 1988-223647	19880908

PRIORITY APPLN. INFO.: US 1984-618736 19840608

IT **31469-15-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of)

RN 31469-15-5 CAPLUS
CN Silane, [(1-methoxy-2-methyl-1-propenyl)oxy]trimethyl- (9CI) (CA INDEX NAME)

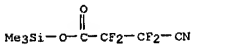
L6 ANSWER 189 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

AB New reactions of functionalized fluoro esters are described, including reaction with tertiary amines to form quaternary ammonium carboxylates in high yield. Efficient schemes for conversion of these salts to trifluorovinyl ethers and **perfluoroalkyl** ethers, two types of comonomer, are presented. Similar reactions are also available for conversion of functionalized fluoro ketones to copolymerizable fluoro olefins. Many of the examples involve fluoroalkyl azides, previously a relatively inaccessible and unstudied class.

ACCESSION NUMBER: 1986:88095 CAPLUS
DOCUMENT NUMBER: 104:88095
TITLE: Derivatives of functionalized fluoro esters and fluoro ketones. New fluoromonomer syntheses
AUTHOR(S): Krespan, Carl G.
CORPORATE SOURCE: Cent. Res. Dev. Dep., E. I. du Pont de Nemours and Co., Inc., Wilmington, DE, 19898, USA
SOURCE: Journal of Organic Chemistry (1986), 51(3), 326-32
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 104:88095

IT **99643-29-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 99643-29-5 CAPLUS
CN Propanoic acid, 3-cyano-2,2,3,3-tetrafluoro-, trimethylsilyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 190 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

AB Hydrogel polymers for contact lenses, vascular prosthetics, and coatings are prepared from monomers including trihaloacetoxyalkyl acrylates and methacrylates and CH2:CRCO2CH(CH2X)CH2OY or CH2:CRCO2CH2CH(CH2X)OY, where R is H or Me, X is F, Cl, Br, I, C1-3 **perfluoroalkylsulfonoxy**, C1-3 **perfluoroacyloxy**, benzoyloxy, or trichloroacetoxy; Y is Cl3CCO, CF3(CF2)nCO where n is 0-6, or [Me(CH2)m]3Si where m is 0-3 by polymerizing, optionally in the presence of an ethylenically unsatd. monomer to give a polymer with a mol. weight of 105-106, heating in a mold or pressing into sheets or films at 100-400° and cooling. The shaped polymer can be treated with a nucleophile to displace the trihaloacetoxy group and give a OH-substituted polymer. Thus, 14.2 g glycidyl methacrylate [106-91-2] was added to 25 g trifluoroacetic anhydride [407-25-0] and 2 drops F3CCO2H in 100 mL CH2Cl2 at 0°, allowed to warm to 20°, and stirred for 20 h. The solvent was evaporated and the residue distilled to give 1,3-bis(trifluoroacetoxy)propyl 2-methacrylate [95615-42-2]. A mixture of 14.4 g of this monomer, 3.6 g ethoxyethyl methacrylate, and 20 mg di-iso-Pr percarbonate was degassed with N and polymerized at 65° for 14 h. The polymer was formed into a contact lens at 149°, and hydrated by stirring in 1M NH4OH for 24 h and rinsing in H2O. The lens contained 42% H2O.

ACCESSION NUMBER: 1985:154835 CAPLUS
DOCUMENT NUMBER: 102:154835
TITLE: Acrylate and methacrylate monomers and polymers for hydrogel contact lenses and thermally formed films
INVENTOR(S): Hammar, W. James
PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co., USA
SOURCE: Eur. Pat. Appl., 36 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

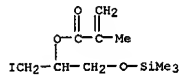
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 128701	A1	19841219	EP 1984-303636	19840530
EP 128701	B1	19890802		
R: DE, FR, GB, IT				
US 4578504	A	19860325	US 1983-500782	19830603
CA 1248126	A1	19890103	CA 1984-454651	19840518
JP 60006711	A2	19850114	JP 1984-112913	19840601
JP 07021028	B4	19950308		
US 4801740	A	19890131	US 1987-14609	19870213

PRIORITY APPLN. INFO.: US 1983-500782 19830603
US 1985-798594 19851115
OTHER SOURCE(S): CASREACT 102:154835

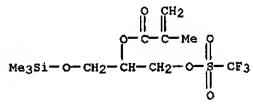
IT **95677-97-7P 95677-99-9P**
RL: PREP (Preparation)
(preparation of, for hydrogel polymer contact lenses)

RN 95677-97-7 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 1-(iodomethyl)-2-[(trimethylsilyl)oxy]ethyl ester (9CI) (CA INDEX NAME)

L6 ANSWER 190 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

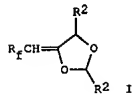


RN 95677-99-9 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 1-[[[(trifluoromethyl)sulfonyl]oxy]methyl]-2-[(trimethylsilyl)oxy]ethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 191 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

GI



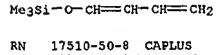
AB Treatment of RfC.tplbond.CH [Rf = CF3(CF2)n, where n = 0, 1, 5, 7], generated in situ from RfCF:CHP(O)(OEt)2, with R1R2C:CHOSiMe3 (e.g., R1 = H, R2 = alkyl) in the presence of a catalytic amount of Bu4N+ F- gave good yields of RfC.tplbond.CCH(OH)CHR1R2 (in THF) or 4-(1H-F-alkylidene)-1,3-dioxolane derivs. I (R2 = Pr, BuCH2, cyclohexyl, n-hexyl) (in MeCN). The latter were converted to the corresponding α-hydroxy ketones.

ACCESSION NUMBER: 1985:148320 CAPLUS
DOCUMENT NUMBER: 102:148320
TITLE: New fluoride ion-catalyzed reaction of F-alkylacetylenes with silyl enol ethers. An efficient route to F-alkyl-substituted propargylic alcohols and α-hydroxy ketones
AUTHOR(S): Ishihara, Takashi; Yamasaki, Yasuhiro; Ando, Teiichi
CORPORATE SOURCE: Fac. Eng., Kyoto Univ., Kyoto, 606, Japan
SOURCE: Tetrahedron Letters (1985), 26(1), 79-82
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 102:148320

IT **6651-33-8 6651-43-0 17510-50-8 80478-44-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(addition reaction of, with (**perfluoroalkyl**)acetylene)

RN 6651-33-8 CAPLUS
CN Silane, (1-butenyloxy)trimethyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

RN 6651-43-0 CAPLUS
CN Silane, (1,3-butadienyloxy)trimethyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

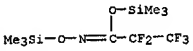


RN 17510-50-8 CAPLUS
CN Silane, (1-heptenyloxy)trimethyl- (8CI, 9CI) (CA INDEX NAME)

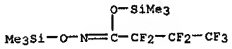
RN 80478-44-0 CAPLUS

L6 ANSWER 191 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN Silane, (1-hexenyloxy)trimethyl- (9CI) (CA INDEX NAME)

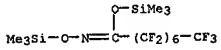
L6 ANSWER 192 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB F-containing isocyanates were prepared by the pyrolysis of RC(OSiMe3):NOSiMe3 (R = fluoroalkyl). Examples include CH2FNCO, CHF2NCO, **perfluoroalkyl** isocyanates, CF2(CF2NCO)2, and the previously unknown CF2(NCO)2. This method gives good yields, is convenient, and safe since it avoids the capriciously explosive intermediates encountered in the Curtius rearrangement usually used to prepare such isocyanates.
ACCESSION NUMBER: 1984:610511 CAPLUS
DOCUMENT NUMBER: 101:210511
TITLE: **Perfluoroalkyl** isocyanates: general synthesis by the pyrolysis of disilyl esters of hydroxamic acids
AUTHOR(S): Middleton, William J.
CORPORATE SOURCE: Cent. Res. Dev. Dep., E. I. du Pont de Nemours and Co., Wilmington, DE, 19898, USA
SOURCE: Journal of Organic Chemistry (1984), 49(23), 4541-3
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 101:210511
IT **92144-86-0P 92144-87-1P 92144-88-2P**
92144-89-3P 92144-90-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and pyrolysis of, isocyanate by)
RN 92144-86-0 CAPLUS
CN Propanimidic acid, 2,2,3,3,3-pentafluoro-N-[(trimethylsilyl)oxy]-, trimethylsilyl ester (9CI) (CA INDEX NAME)



RN 92144-87-1 CAPLUS
CN Butanimidic acid, 2,2,3,3,4,4,4-heptafluoro-N-[(trimethylsilyl)oxy]-, trimethylsilyl ester (9CI) (CA INDEX NAME)

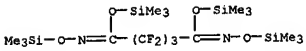


RN 92144-88-2 CAPLUS
CN Octanimidic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-N-[(trimethylsilyl)oxy]-, trimethylsilyl ester (9CI) (CA INDEX NAME)

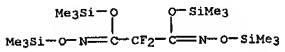


RN 92144-89-3 CAPLUS
CN Pentanediimidic acid, 2,2,3,3,4,4-hexafluoro-N,N'-bis[(trimethylsilyl)oxy]-, bis(trimethylsilyl) ester (9CI) (CA INDEX NAME)

L6 ANSWER 192 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



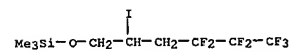
RN 92144-90-6 CAPLUS
CN Propanediimidic acid, 2,2-difluoro-N,N'-bis[(trimethylsilyl)oxy]-, bis(trimethylsilyl) ester (9CI) (CA INDEX NAME)



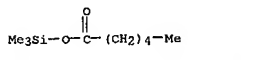
L6 ANSWER 193 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB About 50 examples of the title compds. R1CFR2CR3R4CR5R6X or R1CFR2CR7:CR8X (X = Cl, Br, iodo; R1, R2 = H, halo, poly- or **perfluoroalkyl**; R3-R8 = H, halo, poly- or **perfluorocarbon**, (un)substituted alkyl, vinyl, aryl, silyl, formyl, etc.) were prepared by catalytic addition of R1CR2FX with alkenes or alkynes, or by reaction of halopolyfluoroalkanes with allylsilanes under catalytic or radical generating conditions. The catalysts used were Group VIII metal carbonyl complexes. Thus, treating ICF2CF2CF3 with H2C:CHSiMe3 in the presence of Fe3(CO)12 and HOCH2CH2NH2 at 60° for 30 min gave an 85% yield of C3F7CH2CHISiMe3.
ACCESSION NUMBER: 1984:591119 CAPLUS
DOCUMENT NUMBER: 101:191119
TITLE: Polyfluoroalkyl-substituted compounds
INVENTOR(S): Ojima, Iwao; Fuchikami, Takamasa
PATENT ASSIGNEE(S): Sagami Chemical Research Center , Japan
SOURCE: Eur. Pat. Appl., 50 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 115943	A2	19840815	EP 1984-300477	19840126
EP 115943	A3	19841114		
EP 115943	B1	19871021		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 59137424	A2	19840807	JP 1983-9940	19830126
JP 62028932	B4	19870623		
JP 59152335	A2	19840831	JP 1983-22813	19830216
JP 01019367	B4	19890411		
AT 30312	E	19871115	AT 1984-300477	19840126
US 5017718	A	19910521	US 1984-574214	19840126
PRIORITY APPLN. INFO.:			JP 1983-9940	19830126
			JP 1983-22813	19830216
			EP 1984-300477	19840126

IT **89608-38-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 89608-38-8 CAPLUS
CN Silane, [(4,4,5,5,6,6,6-heptafluoro-2-iodohexyl)oxy]trimethyl- (9CI) (CA INDEX NAME)

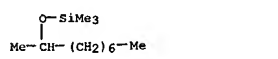


L6 ANSWER 194 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB Nafion-H catalyzed the O-trialkylsilylation of alcs., phenols, and carboxylic acids. The catalyst was also useful for protecting (and deprotecting) alcs. with dihydropyran.
ACCESSION NUMBER: 1984:84889 CAPLUS
DOCUMENT NUMBER: 100:84889
TITLE: Catalysis by solid superacids; 19. Simplified and improved polymeric **perfluorinated** resin sulfonic acid (Nafion-H) catalyzed protection-deprotection reactions
AUTHOR(S): Olah, George A.; Husain, Altaf; Singh, Brij P.
CORPORATE SOURCE: Hydrocarb. Res. Inst., Univ. South. California, Los Angeles, CA, 90089, USA
SOURCE: Synthesis (1983), (11), 892-5
CODEN: SYNTBF; ISSN: 0039-7881
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 100:84889
IT **14246-15-2P 18132-93-9P 39789-11-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 14246-15-2 CAPLUS
CN Hexanoic acid, trimethylsilyl ester (8CI, 9CI) (CA INDEX NAME)



RN 18132-93-9 CAPLUS
CN Silane, (heptyloxy)trimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

RN 39789-11-2 CAPLUS
CN Silane, trimethyl[1-(1-methyloctyl)oxy]- (9CI) (CA INDEX NAME)



L6 ANSWER 195 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
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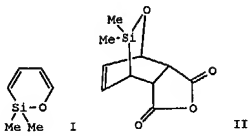
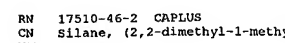


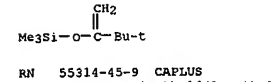
AB 2-Silapyrans (1,2-oxasilins), e.g., I, are synthesized by the pyrolysis of 1-disilanyl-4-methoxy-1,3-butadienes via initial 1,5-silyl migration to afford an intermediate 1-sila-1,3-butadiene. Diels-Alder reaction of the silapyrans and **perfluoro**-2-butyne does not lead to isolable adducts but rather leads to apparent extrusion of silanone (R2Si=O), which is trapped by a variety of reagents. Reaction of the silapyrans and maleic anhydride provides stable adducts that extrude silanones upon either thermolysis or photolysis. No evidence could be found for rearrangement of a silylsilanone to a siloxysilylene.
ACCESSION NUMBER: 1983:107383 CAPLUS
DOCUMENT NUMBER: 98:107383
TITLE: Direct thermal and photochemical generation of silanones
AUTHOR(S): Hussman, Gregory; Wulff, William D.; Barton, Thomas J.
CORPORATE SOURCE: Dep. Chem., Iowa State Univ., Ames, IA, 50011, USA
SOURCE: Journal of the American Chemical Society (1983), 105(5), 1263-9
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 98:107383
IT **18269-67-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of silapyran with **perfluorobutyne** in presence of)
RN 18269-67-5 CAPLUS
CN Silane, (3-butenyloxy)trimethyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 196 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB Treating CnF2n+1I(Ph)O3SR (I; R = CF3, OH) with trimethylsilyl enol ethers under mild conditions gave the title compds. in high yields. Thus, treating Me3SiOCMe:CH2 with I (n = 8, R = CF3) (II) and pyridine in CH2Cl2 at room temperature 1 h gave 88% MeCOCH2(CF2)7CF3; treating H2C:CHCH:CHOSiMe3 with II similarly for 4 h gave 54% (E)-F3C(CF2)7CH2CH:CHCHO. The elimination of HF from the **perfluoroalkyl** carbonyl compds. is reported.
ACCESSION NUMBER: 1982:615473 CAPLUS
DOCUMENT NUMBER: 97:215473
TITLE: A new method for the preparation of α-(**perfluoroalkyl**) carbonyl and γ-(**perfluoroalkyl**)-α,β-unsaturated carbonyl compounds
AUTHOR(S): Umemoto, Teruo; Kuriu, Yuriko; Nakayama, Shin-ichi; Miyano, Osamu
CORPORATE SOURCE: Sagami Chem. Res. Cent., Kanagawa, 229, Japan
SOURCE: Tetrahedron Letters (1982), 23(14), 1471-4
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 97:215473
IT **6651-33-8 6651-43-0 17510-46-2 55314-45-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(addition reaction of, with (**perfluoroalkyl**)phenyliodonium trifluoromethanesulfonates or -sulfates, carbonyl compds. by)
RN 6651-33-8 CAPLUS
CN Silane, (1-butenyloxy)trimethyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

RN 6651-43-0 CAPLUS
CN Silane, (1,3-butadienyloxy)trimethyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

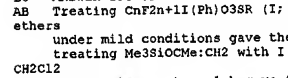


RN 17510-46-2 CAPLUS
CN Silane, (2,2-dimethyl-1-methylenepropoxy)trimethyl- (9CI) (CA INDEX NAME)



RN 55314-45-9 CAPLUS
CN Silane, trimethyl[(1-methyleneheptyl)oxy]- (9CI) (CA INDEX NAME)

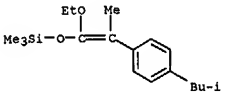
L6 ANSWER 196 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



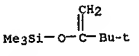
L6 ANSWER 197 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB α-Fluorocarbonyl compds. R2CFCOR1, (R = H, alkyl, cycloalkyl, aryl, optionally substituted by halogen or alkoxy; R1 = H, alkyl, haloalkyl, cycloalkyl, silyl, OH, alkoxy, aryloxy, amino, and S heterocycle; RR1 = diradical, were prepared by converting carbonyl compds. R2CHCOR2 to their silyl enol ethers R2C:CR1OSiR23(R2 = alkyl), followed by fluorination with R3OF (R3 = **perfluoroalkyl** or FOCF2). Thus, silylation of 34.5 g 4-FC6H4COMe gave 19.4 g CH2:C(C6H4F-4)OSiMe3, which (16.8 g) was treated with 9.7 g CF3OF at -70° for 2 h to give 8.7 g FCH2COC6H4F-4..
ACCESSION NUMBER: 1980:620474 CAPLUS
DOCUMENT NUMBER: 93:220474
TITLE: Synthesis of α-fluorocarbonyl compounds
INVENTOR(S): Middleton, William J.
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: U.S., 8 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4215044	A	19800729	US 1979-32347	19790423
PRIORITY APPLN. INFO.:			US 1979-32347	19790423

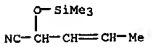
IT **75580-94-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and fluorination of)
RN 75580-94-8 CAPLUS
CN Silane, [[1-ethoxy-2-[4-(2-methylpropyl)phenyl]-1-propenyl]oxy]trimethyl- (9CI) (CA INDEX NAME)



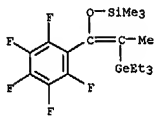
L6 ANSWER 198 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB Reaction of Me3SiC6F5 with enolizable carbonyl compds. RCOCH2R1 (e.g. R = Ph, R1 = H) initiated by CN- gave Me3SiOCR:CHR1 whereas with nonenolizable carbonyl compds. RCHO (e.g. R = Ph) it gave RCHC(OSiMe3)C6F5. Similar reaction of Me3SiCN with carbonyl compds. (e.g. PrCOC.tplbond.CH) gave O-silylated cyanohydrins (e.g. HC.tplbond.CCPr(CN)OSiMe3).
ACCESSION NUMBER: 1979:457090 CAPLUS
DOCUMENT NUMBER: 91:57090
TITLE: Reactions of trimethylperfluorophenylsilane and trimethylcyanosilane with carbonyl compounds catalyzed with cyanide anions
AUTHOR(S): Kruglaya, O. A.; Gostevskii, B. A.; Kalikhman, I. D.; Vyazankin, N. S.
CORPORATE SOURCE: Irkutsk. Inst. Org. Khim., Irkutsk, USSR
SOURCE: Zhurnal Obshchei Khimii (1979), 49(2), 354-60
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 91:57090
IT **17510-46-2P 40326-20-3P 68970-20-7P**
70532-73-9P 70533-08-3P 70533-09-4P
70533-10-7P 70533-15-2P 70533-16-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 17510-46-2 CAPLUS
CN Silane, (2,2-dimethyl-1-methylenepropoxy)trimethyl- (9CI) (CA INDEX NAME)



RN 40326-20-3 CAPLUS
CN 3-Pentenenitrile, 2-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)

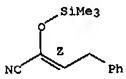


RN 68970-20-7 CAPLUS
CN Silane, trimethyl[[1-(pentafluorophenyl)-2-(triethylgermyl)-1-propenyl]oxy]- (9CI) (CA INDEX NAME)

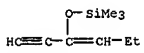


L6 ANSWER 198 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 70532-73-9 CAPLUS
CN 2-Butenenitrile, 4-phenyl-2-[(trimethylsilyl)oxy]-, (Z)- (9CI) (CA INDEX NAME)

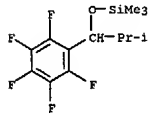
Double bond geometry as shown.



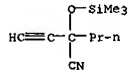
RN 70533-08-3 CAPLUS
CN Silane, [(1-ethynyl-1-butenyl)oxy]trimethyl- (9CI) (CA INDEX NAME)



RN 70533-09-4 CAPLUS
CN Silane, trimethyl[2-methyl-1-(pentafluorophenyl)propoxy]- (9CI) (CA INDEX NAME)



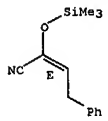
RN 70533-10-7 CAPLUS
CN Pentanenitrile, 2-ethynyl-2-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)



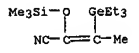
RN 70533-15-2 CAPLUS
CN 2-Butenenitrile, 4-phenyl-2-[(trimethylsilyl)oxy]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L6 ANSWER 198 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 70533-16-3 CAPLUS
CN 2-Butenenitrile, 3-(triethylgermyl)-2-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)



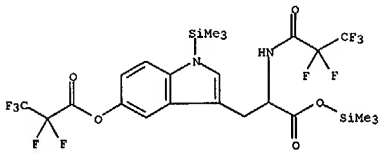
L6 ANSWER 199 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

AB The exptl. conditions reported for the concurrent anal. of tryptophan and its metabolites usually discriminate against 5-hydroxytryptophan (5HTP), a difficulty that can be obviated by the mixed pentafluoropropionyl-trimethylsilyl (PFP-TMS) derivs. described here. Direct **perfluoroacylation** of 5HTP followed by silylation gives a large and well-resolved gas chromatog. peak on OV-17 at 200° with a Kovats retention index at 180° of 2237. Its mass spectrum suggests the structure of a TMS ester of 5-O-PFP-N1-TMS, Nω-PFP-hydroxytryptophan, detectable at the low pg level by selected-ion monitoring of the prominent base peak at m/e 364. However, as these double reactions may give various related isomeric compds. with similar mass spectral patterns, a retention index model was developed as an aid in the combined gas chromatog.-mass spectrometric identification of the different derivs. observed The model, based on the individual ΔI values of the different substituent groups, takes into account the intramol. interactions that may affect the expected retention index of a given derivative

ACCESSION NUMBER: 1979:164205 CAPLUS
DOCUMENT NUMBER: 90:164205
TITLE: Mixed pentafluoropropionyl-trimethylsilyl derivatives of 5-hydroxytryptophan for mass fragmentographic detection. Development of a retention index model for substituted indoles
AUTHOR(S): Martinez, Emilio; Gelpi, Emilio
CORPORATE SOURCE: Inst. Biofis. Neurobiol., Barcelona, Spain
SOURCE: Journal of Chromatography (1978), 167, 77-90
CODEN: JOCRAM; ISSN: 0021-9673
DOCUMENT TYPE: Journal
LANGUAGE: English

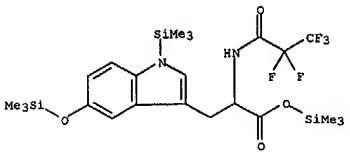
IT **69937-36-6P 69937-37-7P**
RL: PREP (Preparation)
(preparation and mass fragmentog. of Kovats retention index model in relation to)

RN 69937-36-6 CAPLUS
CN Tryptophan, 5-(2,2,3,3,3-pentafluoro-1-oxopropoxy)-N-(2,2,3,3,3-pentafluoro-1-oxopropyl)-1-(trimethylsilyl)-, trimethylsilyl ester (9CI) (CA INDEX NAME)



RN 69937-37-7 CAPLUS
CN Tryptophan, N-(2,2,3,3,3-pentafluoro-1-oxopropyl)-1-(trimethylsilyl)-5-[(trimethylsilyl)oxy]-, trimethylsilyl ester (9CI) (CA INDEX NAME)

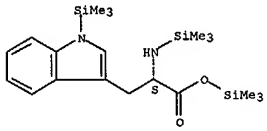
L6 ANSWER 199 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



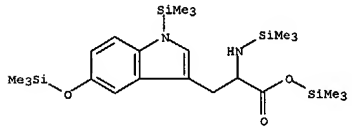
IT **55429-28-2P 69937-47-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and mass fragmentog. of, Kovats retention index model for)

RN 55429-28-2 CAPLUS
CN L-Tryptophan, N,1-bis(trimethylsilyl)-, trimethylsilyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 69937-47-9 CAPLUS
CN Tryptophan, N,1-bis(trimethylsilyl)-5-[(trimethylsilyl)oxy]-, trimethylsilyl ester (9CI) (CA INDEX NAME)



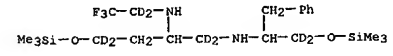
L6 ANSWER 200 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN

AB The mass spectra of the O-trimethylsilylated trifluorodideuteroethyl polyamino alcs., produced by LiAlD4-reduction and O-trimethylsilylation of N-trifluoroacetyl oligopeptide Me esters, are evaluated. Characteristic mass spectra of derivs. are shown that are derived from peptides containing all protein amino acids including arginine, histidine, tryptophan, glutamine, asparagine, and carboxyl terminal amides as well as modified cysteine residues. The mass spectra of these derivs. can be interpreted easily in terms of the amino acid sequence of the original peptides since they contain abundant and intensity-balanced sequence-determining ions.

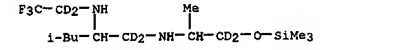
ACCESSION NUMBER: 1976:474448 CAPLUS
DOCUMENT NUMBER: 85:74448
TITLE: Amino acid sequencing by gas chromatography-mass spectrometry using **perfluoro**-dideuteroalkylated peptide derivatives. B. Interpretation of the mass spectra
AUTHOR(S): Nau, Heinz; Biemann, K.
CORPORATE SOURCE: Dep. Chem., Massachusetts Inst. Technol., Cambridge, MA, USA
SOURCE: Analytical Biochemistry (1976), 73(1), 154-74
CODEN: ANBCA2; ISSN: 0003-2697
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **53634-02-9 59998-84-4 59998-85-5 59998-86-6 59998-87-7 59998-88-8 59998-89-9 59998-90-2 59998-91-3 59998-92-4 59998-95-7 59998-96-8 59998-97-9 59998-98-0 59998-99-1 59999-00-7 59999-01-8 60029-25-6 60112-22-3 60112-23-4 60112-24-5 60112-25-6**
RL: PRP (Properties)
(mass spectrum of)

RN 53634-02-9 CAPLUS
CN 1,2-Butane-1,1,4,4-d4-diamine, N1-[1-(phenylmethyl)-2-[(trimethylsilyl)oxy]ethyl-2,2-d2]-N2-(2,2,2-trifluoroethyl-1,1-d2)-4-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)

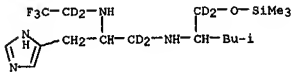


RN 59998-84-4 CAPLUS
CN 1,2-Pentane-1,1-d2-diamine, 4-methyl-N1-[1-methyl-2-[(trimethylsilyl)oxy]ethyl-2,2-d2]-N2-(2,2,2-trifluoroethyl-1,1-d2)- (9CI) (CA INDEX NAME)

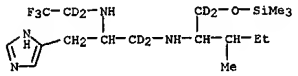


RN 59998-85-5 CAPLUS
CN 1,2-Propane-1,1-d2-diamine, 3-(1H-imidazol-4-yl)-N1-[3-methyl-1-

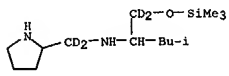
L6 ANSWER 200 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
[[(trimethylsilyl)oxy]methyl-d2]butyl]-N2-(2,2,2-trifluoroethyl-1,1-d2)- (9CI) (CA INDEX NAME)



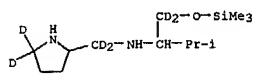
RN 59998-86-6 CAPLUS
CN 1,2-Propane-1,1-d2-diamine, 3-(1H-imidazol-4-yl)-N1-[2-methyl-1-[[(trimethylsilyl)oxy]methyl-d2]butyl]-N2-(2,2,2-trifluoroethyl-1,1-d2)- (9CI) (CA INDEX NAME)



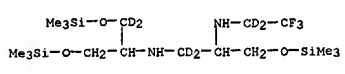
RN 59998-87-7 CAPLUS
CN 2-Pyrrolidinemethan-α,α-d2-amine, N-[3-methyl-1-[[(trimethylsilyl)oxy]methyl-d2]butyl]- (9CI) (CA INDEX NAME)



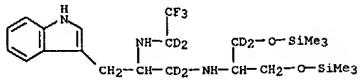
RN 59998-88-8 CAPLUS
CN 2-Pyrrolidine-5,5-d2-methan-α,α-d2-amine, N-[2-methyl-1-[[(trimethylsilyl)oxy]methyl-d2]propyl]- (9CI) (CA INDEX NAME)



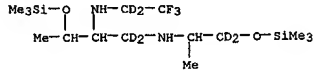
RN 59998-89-9 CAPLUS
CN 1,2-Propane-1,1-d2-diamine, N2-(2,2,2-trifluoroethyl-1,1-d2)-3-[(trimethylsilyl)oxy]-N1-[2-[(trimethylsilyl)oxy]-1-[[(trimethylsilyl]oxy]methyl]ethyl-2,2-d2]- (9CI) (CA INDEX NAME)



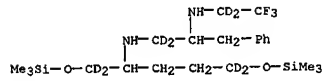
RN 59998-90-2 CAPLUS
CN 1,2-Propane-1,1-d2-diamine, 3-(1H-indol-3-yl)-N2-(2,2,2-trifluoroethyl-1,1-d2)-N1-[2-[(trimethylsilyl)oxy]-1-[[(trimethylsilyl)oxy]methyl]ethyl-2,2-d2]- (9CI) (CA INDEX NAME)



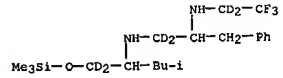
RN 59998-91-3 CAPLUS
CN 1,2-Butane-1,1-d2-diamine, N1-[1-methyl-2-[(trimethylsilyl)oxy]ethyl-2,2-d2]-N2-(2,2,2-trifluoroethyl-1,1-d2)-3-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)



RN 59998-92-4 CAPLUS
CN 1,2-Propane-1,1-d2-diamine, 3-phenyl-N2-(2,2,2-trifluoroethyl-1,1-d2)-N1-[4-[(trimethylsilyl)oxy]-1-[[(trimethylsilyl)oxy]methyl-d2]butyl-4,4-d2]- (9CI) (CA INDEX NAME)



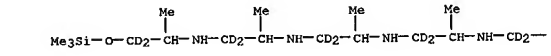
RN 59998-95-7 CAPLUS
CN 1,2-Propane-1,1-d2-diamine, N1-[3-methyl-1-[[(trimethylsilyl)oxy]methyl-d2]butyl]-3-phenyl-N2-(2,2,2-trifluoroethyl-1,1-d2)- (9CI) (CA INDEX NAME)



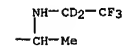
RN 59998-96-8 CAPLUS
CN 1,2-Butane-1,1-d2-diamine, 4-(methylthio)-N1-[3-(methylthio)-1-[[(trimethylsilyl)oxy]methyl-d2]propyl]-N2-(2,2,2-trifluoroethyl-1,1-d2)- (9CI) (CA INDEX NAME)

trifluoroethyl-1,1-d2)amino]propyl-1,1-d2]amino]propyl-1,1-d2]- (9CI) (CA INDEX NAME)

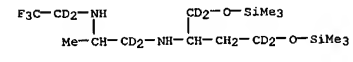
PAGE 1-A



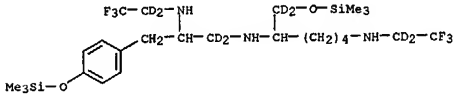
PAGE 1-B



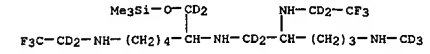
RN 60029-25-6 CAPLUS
CN 1,2-Propane-1,1-d2-diamine, N2-(2,2,2-trifluoroethyl-1,1-d2)-N1-[3-[(trimethylsilyl)oxy]-1-[[(trimethylsilyl)oxy]methyl-d2]propyl-3,3-d2]- (9CI) (CA INDEX NAME)



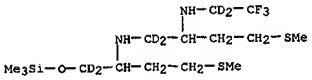
RN 60112-22-3 CAPLUS
CN 1,5-Hexane-6,6-d2-diamine, N1-(2,2,2-trifluoroethyl-1,1-d2)-N5-[2-[(2,2,2-trifluoroethyl-1,1-d2)amino]-3-[4-[(trimethylsilyl)oxy]phenyl]propyl-1,1-d2]-6-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)



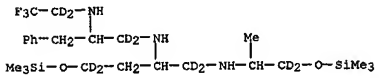
RN 60112-23-4 CAPLUS
CN 1,5-Hexane-6,6-d2-diamine, N5-[5-(methyl-d3-amino)-2-[(2,2,2-trifluoroethyl-1,1-d2)amino]pentyl-1,1-d2]-N1-(2,2,2-trifluoroethyl-1,1-d2)-6-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)



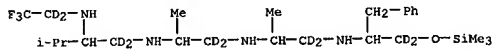
RN 60112-24-5 CAPLUS
CN 1,2-Butane-1,1-d2-diamine, N2-(2,2,2-trifluoroethyl-1,1-d2)-3-



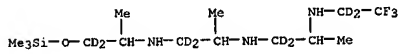
RN 59998-97-9 CAPLUS
CN 1,2-Butane-1,1,4,4-d4-diamine, N1-[1-methyl-2-[(trimethylsilyl)oxy]ethyl-2,2-d2]-N2-[3-phenyl-2-[(2,2,2-trifluoroethyl-1,1-d2)amino]propyl-1,1-d2]-4-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)



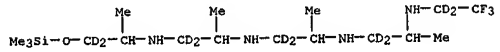
RN 59998-98-0 CAPLUS
CN 1,2-Butane-1,1-d2-diamine, 3-methyl-N1-[1,4,10,10-tetramethyl-7-(phenylmethyl)-9-oxa-3,6-diaza-10-silaundec-1-yl-2,2,5,5,8,8-d6]-N2-(2,2,2-trifluoroethyl-1,1-d2)- (9CI) (CA INDEX NAME)



RN 59998-99-1 CAPLUS
CN 1,2-Propane-1,1-d2-diamine, N1-[1-methyl-2-[[1-methyl-2-[(trimethylsilyl)oxy]ethyl-2,2-d2]amino]ethyl-2,2-d2]-N2-(2,2,2-trifluoroethyl-1,1-d2)- (9CI) (CA INDEX NAME)

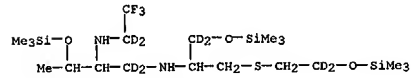


RN 59999-00-7 CAPLUS
CN 1,2-Propane-1,1-d2-diamine, N1-[1-methyl-2-[[1-methyl-2-[(trimethylsilyl)oxy]ethyl-2,2-d2]amino]ethyl-2,2-d2]-N2-[2-[(2,2,2-trifluoroethyl-1,1-d2)amino]propyl-1,1-d2]- (9CI) (CA INDEX NAME)

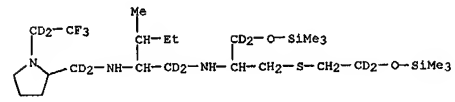


RN 59999-01-8 CAPLUS
CN 1,2-Propane-1,1-d2-diamine, N1-[1-methyl-2-[[1-methyl-2-[(trimethylsilyl)oxy]ethyl-2,2-d2]amino]ethyl-2,2-d2]-N2-[2-[[2-[(2,2,2-

[(trimethylsilyl)oxy]-N1-[2-[(trimethylsilyl)oxy]-1-[[[2-[(trimethylsilyl)oxy]ethyl-2,2-d2]thio]methyl]ethyl-2,2-d2]- (9CI) (CA INDEX NAME)



RN 60112-25-6 CAPLUS
CN 1,2-Pentane-1,1-d2-diamine, 3-methyl-N2-[[1-(2,2,2-trifluoroethyl-1,1-d2)-2-pyrrolidinyl]methyl-d2]-N1-[2-[(trimethylsilyl)oxy]-1-[[[2-[(trimethylsilyl)oxy]ethyl-2,2-d2]thio]methyl]ethyl-2,2-d2]- (9CI) (CA INDEX NAME)



L6 ANSWER 201 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB RR1R2R3N+F(CF2)nSO3- (I; R, R1, R2, and R3 = alkyl, PhCH2; RR1R2R3N+ = alkylpyridinium, dialkylmorpholinium, etc.; n = 1, 4, 8) were prepared by the reaction of a tertiary amine with F(CF2)nSO2F and an alkoxysilane. Thus, F(CF2)4SO2F reacted with Et3N and MeSi(OEt)3 in Et2O to give 70.5% Et4N+F(CF2)4SO3-. I were useful as surfactants.
ACCESSION NUMBER: 1975:513653 CAPLUS
DOCUMENT NUMBER: 83:113653
TITLE: **Perfluoroalkyl**-substituted, quaternary ammonium salts
INVENTOR(S): Niederpruem, Hans; Voss, Peter; Beyl, Volker
PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 22 pp. Division of Ger. Offen. 1,929,665 (CA 74;87395g).
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

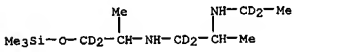
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1966931	A1	19750528	DE 1969-1966931	19690611
DE 1966931	B2	19771124		
DE 1966931	C3	19781102		

PRIORITY APPLN. INFO.: DE 1969-1966931 19690611
IT **18748-98-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with amines and **perfluoroalkylsulfonyl** fluoride)
RN 18748-98-6 CAPLUS
CN Silane, trimethyl(octadecyloxy)- (6CI, 8CI, 9CI) (CA INDEX NAME)

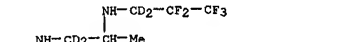
IT **14629-45-9 18402-10-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with **perfluoroalkylsulfonyl** fluorides and amines)
RN 14629-45-9 CAPLUS
CN Silane, trimethyl(pentyloxy)- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

RN 18402-10-3 CAPLUS
CN Silane, (decyloxy)trimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 202 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB Volatile peptide derivs. were prepared by reduction of N-CF3CO, N-CF3CF2CO and
N-CF3CF2CF2CO oligopeptide Me esters by LiAlD4 and subsequent O-trimethylsilylation. The resulting O-trimethylsilylated dideuterio-**perfluoroalkyl** polyamino alcs. are the most volatile peptide derivs. known. Their mass spectra exhibit abundant and intensity-balanced
sequence-determining ions as well as M-15 ions. These properties permit the
determination of the sequence of oligopeptides in the extremely complex mixts.
which result from the hydrolysis of polypeptides or proteins. As little as 1 nanomole of a particular peptide can be detected.
ACCESSION NUMBER: 1974:536504 CAPLUS
DOCUMENT NUMBER: 81:136504
TITLE: New dideutero **perfluoroalkylated** oligopeptide derivatives for protein-sequencing by gas
chromatography-mass spectrometry
AUTHOR(S): Nau, H.
CORPORATE SOURCE: Dep. Chem., Massachusetts Inst. Technol., Cambridge, MA, USA
SOURCE: Biochemical and Biophysical Research Communications (1974), 59(3), 1088-96
CODEN: BBRCA9; ISSN: 0006-291X
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **53633-95-7 53633-96-8 53633-97-9 53633-98-0 53633-99-1 53634-00-7**
RL: PRP (Properties)
(gas chromatography and mass spectrum of, sequencing by)
RN 53633-95-7 CAPLUS
CN 1,2-Propane-1,1-d2-diamine, N2-(ethyl-1,1-d2)-N1-[1-methyl-2-[(trimethylsilyl)oxy]ethyl-2,2-d2]- (9CI) (CA INDEX NAME)



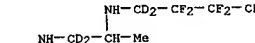
RN 53633-96-8 CAPLUS
CN 1,2-Propane-1,1-d2-diamine, N1-[1-methyl-2-[(trimethylsilyl)oxy]ethyl-2,2-d2]-N2-(2,2,3,3,3-pentafluoropropyl-1,1-d2)- (9CI) (CA INDEX NAME)



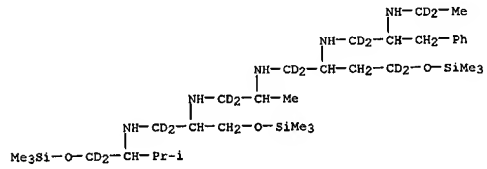
RN 53633-97-9 CAPLUS
CN 1,2-Propane-1,1-d2-diamine, N1-[1-methyl-2-[(trimethylsilyl)oxy]ethyl-2,2-d2]-N2-(2,2,2-trifluoroethyl-1,1-d2)- (9CI) (CA INDEX NAME)

L6 ANSWER 202 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 53633-98-0 CAPLUS
CN 1,2-Propane-1,1-d2-diamine, N2-(2,2,3,3,4,4,4-heptafluorobutyl-1,1-d2)-N1-[1-methyl-2-[(trimethylsilyl)oxy]ethyl-2,2-d2]- (9CI) (CA INDEX NAME)

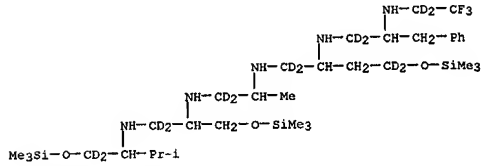


RN 53633-99-1 CAPLUS
CN 1,2-Butane-1,1,4,4-d4-diamine, N2-[2-(ethyl-1,1-d2-amino)-3-phenylpropyl-1,1-d2]-N1-[1-methyl-2-[[2-[[2-methyl-1-[[(trimethylsilyl)oxy]methyl-d2]propyl]amino]-1-[[(trimethylsilyl)oxy]methyl]ethyl-2,2-d2]amino]ethyl-2,2-d2]-4-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)

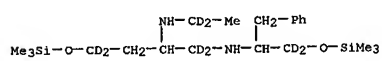


RN 53634-00-7 CAPLUS
CN 1,2-Butane-1,1,4,4-d4-diamine, N1-[1-methyl-2-[[2-[[2-methyl-1-[[(trimethylsilyl)oxy]methyl-d2]propyl]amino]-1-[[(trimethylsilyl)oxy]methyl]ethyl-2,2-d2]amino]ethyl-2,2-d2]-N2-[3-phenyl-2-[(2,2,2-trifluoroethyl-1,1-d2)amino]propyl-1,1-d2]-4-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)

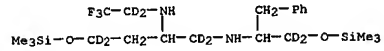
L6 ANSWER 202 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



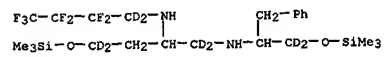
IT **53634-01-8 53634-02-9 53634-03-0 53634-04-1 53634-05-2 53634-06-3 53634-07-4 53634-08-5 53634-09-6 53634-10-9 53634-11-0 53728-72-6 53728-73-7 53779-03-6**
RL: PROC (Process)
(gas chromatography of)
RN 53634-01-8 CAPLUS
CN 1,2-Butane-1,1,4,4-d4-diamine, N2-(ethyl-1,1-d2)-N1-[1-(phenylmethyl)-2-[(trimethylsilyl)oxy]ethyl-2,2-d2]-4-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)



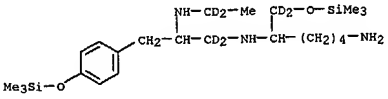
RN 53634-02-9 CAPLUS
CN 1,2-Butane-1,1,4,4-d4-diamine, N1-[1-(phenylmethyl)-2-[(trimethylsilyl)oxy]ethyl-2,2-d2]-N2-(2,2,2-trifluoroethyl-1,1-d2)-4-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)



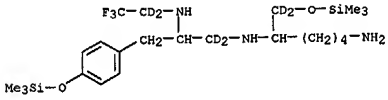
RN 53634-03-0 CAPLUS
CN 1,2-Butane-1,1,4,4-d4-diamine, N2-(2,2,3,3,4,4,4-heptafluorobutyl-1,1-d2)-N1-[1-(phenylmethyl)-2-[(trimethylsilyl)oxy]ethyl-2,2-d2]-4-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)



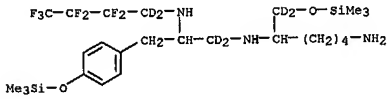
RN 53634-04-1 CAPLUS
CN 1,5-Hexane-6,6-d2-diamine, N5-[2-(ethyl-1,1-d2-amino)-3-[4-[(trimethylsilyl)oxy]phenyl]propyl-1,1-d2]-6-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)



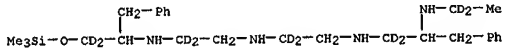
RN 53634-05-2 CAPLUS
CN 1,5-Hexane-6,6-d2-diamine, N5-[2-[(2,2,2-trifluoroethyl-1,1-d2)amino]-3-[4-[(trimethylsilyl)oxy]phenyl]propyl-1,1-d2]-6-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)



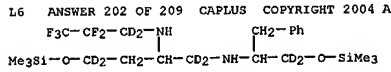
RN 53634-06-3 CAPLUS
CN 1,5-Hexane-6,6-d2-diamine, N5-[2-[(2,2,3,3,4,4,4-heptafluorobutyl-1,1-d2)amino]-3-[4-[(trimethylsilyl)oxy]phenyl]propyl-1,1-d2]-6-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)



RN 53634-07-4 CAPLUS
CN 1,2-Propane-1,1-d2-diamine, N2-(ethyl-1,1-d2)-3-phenyl-N1-[2-[[2-[[1-(phenylmethyl)-2-[(trimethylsilyl)oxy]ethyl-2,2-d2]amino]ethyl-2,2-d2]amino]ethyl-2,2-d2]- (9CI) (CA INDEX NAME)

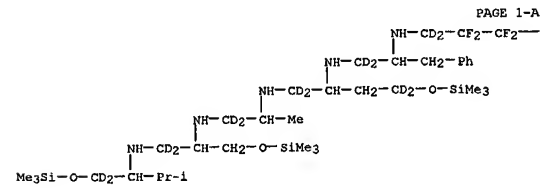


RN 53634-08-5 CAPLUS
CN 1,2-Propane-1,1-d2-diamine, 3-phenyl-N1-[2-[[2-[[1-(phenylmethyl)-2-[(trimethylsilyl)oxy]ethyl-2,2-d2]amino]ethyl-2,2-d2]amino]ethyl-2,2-d2]-N2-(2,2,2-trifluoroethyl-1,1-d2)- (9CI) (CA INDEX NAME)



RN 53728-73-7 CAPLUS
CN 1,2-Butane-1,1,4,4-d4-diamine, N2-[2-[(2,2,3,3,4,4,4-heptafluorobutyl-1,1-d2)amino]-3-phenylpropyl-1,1-d2]-N1-[1,10,10-trimethyl-7-(1-methylethyl)-4-[(trimethylsilyl)oxy]methyl]-9-oxa-3,6-diaza-10-silaundec-1-yl-2,2,5,5,8,8-d6]-4-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)

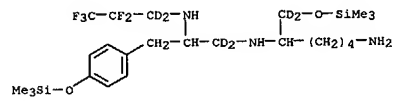
PAGE 1-A

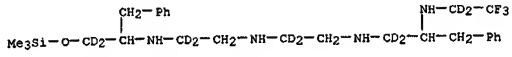


PAGE 1-B

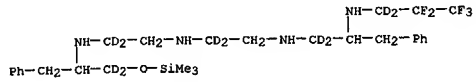
—CF3

RN 53779-03-6 CAPLUS
CN 1,5-Hexane-6,6-d2-diamine, N5-[2-[(2,2,3,3,3-pentafluoropropyl-1,1-d2)amino]-3-[4-[(trimethylsilyl)oxy]phenyl]propyl-1,1-d2]-6-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)

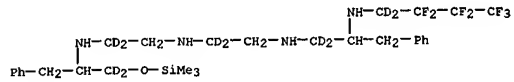




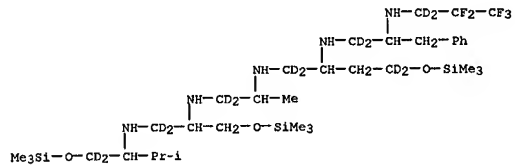
RN 53634-09-6 CAPLUS
CN 1,2-Propane-1,1-d2-diamine, N2-(2,2,3,3,3-pentafluoropropyl-1,1-d2)-3-phenyl-N1-[2-[[2-[[1-(phenylmethyl)-2-[(trimethylsilyl)oxy]ethyl-2,2-d2]amino]ethyl-2,2-d2]amino]ethyl-2,2-d2]- (9CI) (CA INDEX NAME)



RN 53634-10-9 CAPLUS
CN 1,2-Propane-1,1-d2-diamine, N2-(2,2,3,3,4,4,4-heptafluorobutyl-1,1-d2)-3-phenyl-N1-[2-[2-[[1-(phenylmethyl)-2-[(trimethylsilyl)oxy]ethyl-2,2-d2]amino]ethyl-2,2-d2]amino]ethyl-2,2-d2]- (9CI) (CA INDEX NAME)



RN 53634-11-0 CAPLUS
CN 1,2-Butane-1,1,4,4-d4-diamine, N1-[1-methyl-2-[[2-[[2-methyl-1-[[(trimethylsilyl)oxy]methyl-d2]propyl]amino]-1-[[(trimethylsilyl)oxy]methyl]ethyl-2,2-d2]amino]ethyl-2,2-d2]-N2-[2-[(2,2,3,3,3-pentafluoroethyl-1,1-d2)amino]-3-phenylpropyl-1,1-d2]-4-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)



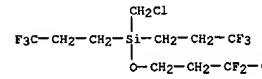
RN 53728-72-6 CAPLUS
CN 1,2-Butane-1,1,4,4-d4-diamine, N2-(2,2,3,3,3-pentafluoropropyl-1,1-d2)-N1-[1-(phenylmethyl)-2-[(trimethylsilyl)oxy]ethyl-2,2-d2]-4-[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)

AB Elastomers that were hybrids of siloxanes and fluorocarbons were prepared by the hydrolytic homopolymn. of monomers I (R1 and R2 = alkyl or fluoroalkyl, x = 1, 2, 4, 6, 8, or 10), e.g. 1,5-bis(chlorodimethylsilyl)-3,3-difluoropentane (I, R1 = R2 = CH3, x = 1) [37481-02-0] and by the hydrolytic block polymerization of I with siloxanes. Also prepared were monomers II (Z = **perfluorinated** ethers), e.g. 4-[chloromethyl(3,3,3-trifluoropropyl)silyl]-1,1,2,2-tetrafluorobutyl ether (II, Z = -CF2CF2OCF2CF2-) [**37481-04-2**] and from them elastomers were prepared by hydrolytic homopolymn.

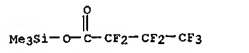
ACCESSION NUMBER: 1973:31052 CAPLUS
DOCUMENT NUMBER: 78:31052
TITLE: New hybrid fluorosilicones. II. Polymers
AUTHOR(S): Pierce, Ogden R.; Kim, Yung K.; Bourrie, Daniel B.
CORPORATE SOURCE: Adv. Res. Lab., Dow Corning Corp., Midland, MI, USA
SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1971), 12(1), 489-96
CODEN: ACPPAY; ISSN: 0032-3934
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **37481-04-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

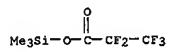
RN 37481-04-2 CAPLUS
CN Silane, (chloromethyl)(3,3,4,4,4-pentafluorobutoxy)bis(3,3,3-trifluoropropyl)- (9CI) (CA INDEX NAME)



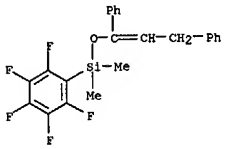
L6 ANSWER 204 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB The reaction of S2Cl2 with silver **perfluorocarboxylates** gives substituted disulfides, (RCO2S)2, where R = CF3, C2F5, C3F7. They are thermally unstable and decompose to (RCO)2O, SO2, and S. (RCO2)nSiMe4-n, where n = 1, 2, 3, and R = CF3, C2F5, C3F7, were prepared similarly by reaction with the corresponding chloromethylsilanes. Ir, NMR, and mass spectra as well as elemental analyses are reported.
ACCESSION NUMBER: 1970:43780 CAPLUS
DOCUMENT NUMBER: 72:43780
TITLE: **Perfluorocarboxylato** disulfides and methylsilanes
AUTHOR(S): Wang, Charlene S.; Pullen, Kent E.; Shreeve, Jeann'ne M.
CORPORATE SOURCE: Dep. of Chem., Univ. of Idaho, Moscow, ID, USA
SOURCE: Inorganic Chemistry (1970), 9(1), 90-2
CODEN: INOCAJ; ISSN: 0020-1669
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **24929-99-5P 24930-02-7P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and spectra of)
RN 24929-99-5 CAPLUS
CN Butanoic acid, heptafluoro-, trimethylsilyl ester (9CI) (CA INDEX NAME)



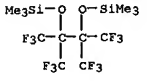
RN 24930-02-7 CAPLUS
CN Propanoic acid, pentafluoro-, trimethylsilyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 205 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB The addition of (pentafluorophenyl)-dimethylsilane (I), bis(pentafluorophenyl)methylsilane (II), and tris(pentafluorophenyl)silane (III) to phenylacetylene catalyzed by hexachloroplatinic acid gave mixts. of α- and β-substituted styrenes in each case; the proportion of the α-isomer increased from I-III. I underwent addition to the olefinic and carbonyl bonds of some representative compds.; addition did not occur under the conditions used with cyclohexene, furan, tetrakis(trimethylsilyl)allene nor with the azomethine, nitrile or azo linkages. I added to benzalacetophenone to give the 1,4-adduct. The addition of hydrosilanes to unsatd. compds. has, since its initial discovery, provided a direct and in many cases a preferred synthesis of functional organosilicon monomers. Of the various catalysts which have been used to promote this reaction, hexachloroplatinic acid is generally very effective. As an extension of studies of functional organosilicon monomers and in particular those containing polyhalophenyl groups, the addition reactions of I, II, and III with a representative sample of unsatd. compds., catalyzed by hexachloroplatinic acid were investigated.
ACCESSION NUMBER: 1969:78060 CAPLUS
DOCUMENT NUMBER: 70:78060
TITLE: Hydrosilane addition of **perfluorophenylsilanes** to some unsaturated systems
AUTHOR(S): Brennan, Thomas; Gilman, Henry
CORPORATE SOURCE: Iowa State Univ., Ames, IA, USA
SOURCE: Journal of Organometallic Chemistry (1969), 16(1), 63-70
CODEN: JORCAI; ISSN: 0022-328X
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **21685-00-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 21685-00-7 CAPLUS
CN Silane, [(1,3-diphenylpropenyl)oxy]dimethyl(pentafluorophenyl)- (8CI) (CA INDEX NAME)



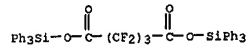
L6 ANSWER 206 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB Reductive dimerization of hexafluoroacetone, by reaction with Na in a donor solvent leads to the ionic disodium alkoxide of **perfluoropinacol**, a valuable intermediate for the preparation of pinacol derivs. Cyclic alkoxides of Si, Ge, Sn, and B are made by the reaction of this disodium alkoxide with various dihalides. Reaction with SOCl2, SO2Cl2, or SCl2 gives **perfluoropinacol** sulfite, sulfate, and ortho sulfite, resp. The stereochemistry of the last compound is discussed.
ACCESSION NUMBER: 1969:11038 CAPLUS
DOCUMENT NUMBER: 70:11038
TITLE: Fully fluorinated alkoxides. IV. Derivatives of **perfluoropinacol**
AUTHOR(S): Allan, M.; Janzen, A. F.; Willis, Christopher J.
CORPORATE SOURCE: Univ. Western Ontario, London, ON, Can.
SOURCE: Canadian Journal of Chemistry (1968), 46(23), 3671-7
CODEN: CJCHAG; ISSN: 0008-4042
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **6398-27-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 6398-27-2 CAPLUS
CN 3,6-Dioxa-2,7-disilaoctane, 2,2,7,7-tetramethyl-4,4,5,5-tetrakis(trifluoromethyl)- (7CI, 8CI) (CA INDEX NAME)



L6 ANSWER 207 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB By addition of 0.1-50% by weight of bis(triphenyl silyl) **perfluorocarboxylic** acid esters to lubricating greases comprising thickened silicone polymer oils, lubricants useful at ≥600°F. result. The esters have the formula $Ph_3SiO_2C(CF_2)_nCO_2SiPh_3$, where n is 1-8, and are prepared by reaction of 2 moles of triphenylsilanol (I) with 1 mole of a dicarboxylic acid chloride in solvents at room temperature and atmospheric pressure. Suitable thickening agents for silicone oils are high-m.p. ureas, diureas, amides and diamides, such as ammeline (II). Preparation of the lubricant consists of mixing the preformed thickener with the silicone oil, followed by milling in a colloidal- or 3-roll mill, and heating to .apprx.450°F. for 1-20 hrs. Thus, a lubricating grease was prepared from 35% by weight II and 65% DC QF-6-7024 silicone oil. When tested in an antifriction bearing at 600°F., 50-lb. radial load, 25-lb. axial load, and 10,000 rpm., according to CRC Test L-35-59, failure occurred in 113 hrs. A mixture of I 27.6 in pyridine 58 and **perfluoroglutaroyl** chloride 13.8 g. in 20 ml. of C6H6 was made and the solvent removed by reducing the pressure. After working the resulting mass with 170 ml. of abs·EtOH, 16 g. of colorless solid, m. 446-53° F., resulted. Three percent by weight of this product was added to the lubricating grease above and the product was subjected to the L-35-59 test, giving 183 hrs. to failure.
ACCESSION NUMBER: 1968:61504 CAPLUS
DOCUMENT NUMBER: 68:61504
TITLE: Lubricating greases
INVENTOR(S): Kawahara, Fred K.
PATENT ASSIGNEE(S): Standard Oil Co.
SOURCE: U.S., 4 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3347794		19671017	US	19640323

IT **19095-03-5**
RL: USES (Uses)
(as lubricating grease thermal stabilizer)
RN 19095-03-5 CAPLUS
CN Glutaric acid, hexafluoro-, bis(triphenylsilyl) ester (8CI) (CA INDEX NAME)

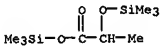


L6 ANSWER 208 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
AB Reactions of labile trimethylsilyl derivs. with fluorocarbons in a gas chromatograph/mass spectrometer system at >150° were observed. The gas chromatographic work was done on a 10% SE-30/Chromosorb W column but similar results were obtained with a Poropak Q column. The reaction was observed both with a system which was contaminated with fluorocarbons from a valve containing a Teflon sleeve and with a system in which the injection port was packed with **perfluorocarbon**. The reactive derivs. include Me_3SiCl, hexamethyldisilazane, bis(trimethylsilyl)acetamide, and bis(trimethylsilyl) lactate. Gas chromatograms and mass spectrometric data are presented.

ACCESSION NUMBER: 1967:478733 CAPLUS
DOCUMENT NUMBER: 67:78733
TITLE: Reactions of labile trimethylsilyl derivatives with fluorocarbons in a gas chromatograph-mass spectrometer system
AUTHOR(S): Foltz, Rodger L.; Neher, Maynard B.; Hinnenkamp, E. R.
CORPORATE SOURCE: Battelle Mem. Inst., Columbus, OH, USA
SOURCE: Analytical Chemistry (1967), 39(11), 1338-9
CODEN: ANCHAM; ISSN: 0003-2700
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **17596-96-2**
RL: ANT (Analyte); ANST (Analytical study)
(chromatog. of, reaction with fluorocarbons in)

RN 17596-96-2 CAPLUS
CN Propanoic acid, 2-[(trimethylsilyl)oxy]-, trimethylsilyl ester (9CI) (CA INDEX NAME)

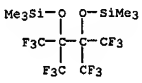


L6 ANSWER 209 OF 209 CAPLUS COPYRIGHT 2004 ACS on STN
GI For diagram(s), see printed CA Issue.
AB Addition of a hexane dispersion of Li to tetrahydrofuran solution of Me_2SiCl_2 and $(F_3C)_2CO$ afforded 35% 4,4,5,5-tetrakis(trifluoromethyl)-2,2-dimethyl-1,3-dioxa-2-silacyclopentane (I). The structure of I was wrongly represented earlier (Braun, CA 64, 6632d) assuming its formation via Me_2Si: intermediate. I was also formed by condensation of $Me_2Si(OAc)_2$ with **perfluoropinacol** (II). I with MeOH and Et_3N underwent an exothermic reaction to give 92% triethylammonium **perfluoropinacolate** (III) which was also prepared directly from II and Et_3N. A related reaction (where Me_2Si: could not be an intermediate) involving Me_3SiCl gave the expected 1,2-bis(trimethylsiloxy)tetrakis(trifluoromethyl)ethane (IV), which on methanolysis in the presence of Et_3N gave III in quant. yield.

ACCESSION NUMBER: 1966:412411 CAPLUS
DOCUMENT NUMBER: 65:12411
ORIGINAL REFERENCE NO.: 65:2288a-d
TITLE: Alkoxysilanes derived from hexafluoroacetone. The purported intermediacy of dimethylsilene
AUTHOR(S): Frye, Cecil L.; Salinger, Rudolf M.; Patin, Thomas J.
CORPORATE SOURCE: Inorg. Res. Lab., Dow Corning Corp., Midland, MI
SOURCE: Journal of the American Chemical Society (1966), 88(10), 2343-4
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **6398-27-2**, 3,6-Dioxa-2,7-disilaoctane, 2,2,7,7-tetramethyl-4,4,5,5-tetrakis(trifluoromethyl)-
(preparation of)

RN 6398-27-2 CAPLUS
CN 3,6-Dioxa-2,7-disilaoctane, 2,2,7,7-tetramethyl-4,4,5,5-tetrakis(trifluoromethyl)- (7CI, 8CI) (CA INDEX NAME)



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DICTIONARY FILE UPDATES:    4 JUN 2004  HIGHEST RN 689739-78-4

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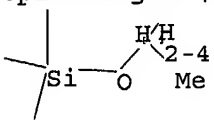

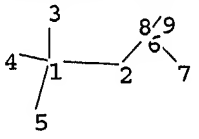


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chain bonds :
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exact/norm bonds :
2-6
exact bonds :
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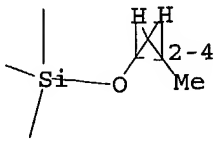


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INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
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PROJECTED ITERATIONS:       184771 TO   196469
PROJECTED ANSWERS:               0 TO        0

L8             0 SEA SSS SAM L7

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SEARCH TIME: 00.00.02

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FULL ESTIMATED COST                                   156.26     604.35

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                     0.00     -41.58

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FILE COVERS 1907 - 6 Jun 2004 VOL 140 ISS 24
FILE LAST UPDATED: 4 Jun 2004 (20040604/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L10         393 L9

=> d his

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L2            50 S L1
L3        106014 S L1 FULL

     FILE 'CAPLUS' ENTERED AT 17:25:10 ON 06 JUN 2004
L4         28782 S L3
L5         47305 S PERFLUOR?
L6           209 S L4 AND L5

     FILE 'REGISTRY' ENTERED AT 17:32:13 ON 06 JUN 2004
L7               STRUCTURE UPLOADED
L8             0 S L7
L9           218 S L7 FULL

     FILE 'CAPLUS' ENTERED AT 17:33:47 ON 06 JUN 2004
L10          393 S L9

=> s l10 and l5
L11            3 L10 AND L5

=> d l11 1-3 abs ibib hitstr
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L11 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
AB R(OA)n(OH)z-n [A = glycoside (derivative) residue; R = C1-36 linear or branched alkyl, alkenyl, cycloalkyl, cholesteryl, cholestanoyl, sugar (derivative) residue; when R = sugar (derivative) residue, then z = number of OH of the sugar (derivative); when R ≠ sugar (derivative) residue, then z = 1; n = 1-z] are prepared by treatment of AOB (A = same as above; B = H, acyl) with R(OD)z (R, z = same as above; D = H, Me3Si) in the presence of (RfSO3)3M (Rf = **perfluoroalkyl**, **perfluoroalkoxy**; M = rare earth metal) and/or rare earth metal **perfluorinated** ionomers. 1-O-acetyl-2,3,5-tri-O-benzyl-β-D-ribofuranose was treated with cyclohexanol trimethylsilyl ether and Yb triflate in CH2Cl2 at room temperature for 5.5 h to give 85% 1-O-cyclohexyl 2,3,5-tri-O-benzyl-D-ribofuranoside.
ACCESSION NUMBER: 1997:449039 CAPLUS
DOCUMENT NUMBER: 127:66093
TITLE: Preparation of sugar ethers by using rare earth metal catalysts
INVENTOR(S): Hashizume, Naomichi; Etsuno, Junji; Kobayashi, Osamu
PATENT ASSIGNEE(S): Kao Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09157287	A2	19970617	JP 1995-316704	19951205

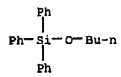
PRIORITY APPLN. INFO.: JP 1995-316704 19951205
OTHER SOURCE(S): CASREACT 127:66093; MARPAT 127:66093
IT **1825-65-6**, Butyl trimethylsilyl ether
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of glycosides from (acylated) sugars and alcs. with rare earth metal catalysts)
RN 1825-65-6 CAPLUS
CN Silane, butoxytrimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L11 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
AB The catalyst component, useful for manufacture of polyolefins with high mol. weight and a relatively wide mol.-weight distribution, is prepared by contacting compds. M1R1p(OR2)qX14-p-q (M1 = Zr, Ti, Hf; R1, R2 = C1-24 hydrocarbyl; X1 = halo; p, q, p + q = 0-4) with compds. M2R3m(OR4)nX2z-m-n (M2 = Group I-III element; R3, R4 = C1-24 hydrocarbyl; X2 = halo; z = valence of M2; 0 ≤ m ≤ z; 0 ≤ n ≤ z; 0 ≤ m + n ≤ z), organocyclic compds. having ≥2 conjugated double bonds, and (a) modified organoaluminum compds. containing ≥1 Al-O-Al bond and ≥1 branched-chain alkyl group attached to Al, (b) B compds., (c) compds. with C-halogen bonds, or (d) sulfides. Thus, polymerization of an ethylene-1-butene mixture using as catalysts iso-Bu3Al, Me aluminoxane, and a catalyst component prepared from AlEt3, indene, Zr(OPr)4, and iso-Bu aluminoxane gave a polymer having d. 0.9215, m.p. 114.0°, melt index (2.16 kg, 190°) 1.0 g/10 min, and Mw/Mn 5.4.
ACCESSION NUMBER: 1994:509875 CAPLUS
DOCUMENT NUMBER: 121:109875
TITLE: Catalyst component for the polymerization of olefins and process for preparing olefin polymers using it
INVENTOR(S): Tajima, Yoshio; Seki, Takashi; Mori, Satoshi; Aida, Fuyuki; Matsuura, Kazuo; Kataoka, Naoki
PATENT ASSIGNEE(S): Nippon Oil Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 53 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 587440	A2	19940316	EP 1993-307161	19930910
EP 587440	A3	19950308		
R: DE, FR, GB, IT, NL				
JP 06093031	A2	19940405	JP 1992-283394	19920910
JP 3321761	B2	20020909		
JP 06199926	A2	19940719	JP 1992-361970	19921228
JP 3265436	B2	20020311		
CA 2105889	AA	19940311	CA 1993-2105889	19930910
JP 06248010	A2	19940906	JP 1993-353754	19931228
JP 3303061	B2	20020715		

PRIORITY APPLN. INFO.: JP 1992-283394 A 19920910
JP 1992-360607 A 19921228
JP 1992-361970 A 19921228
OTHER SOURCE(S): MARPAT 121:109875
IT **157148-38-4**
RL: CAT (Catalyst use); USES (Uses)
(polymerization catalysts, for high-mol.-weight polyolefins with wide mol.-weight distribution)
RN 157148-38-4 CAPLUS
CN Silane, (hexafluorobutoxy)triphenyl- (9CI) (CA INDEX NAME)

L11 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



6 (D1—F)

L11 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
AB RR1R2R3N+F(CF2)nSO3- (I; R, R1, R2, and R3 = alkyl, PhCH2; RR1R2R3N+ = alkylpyridinium, dialkylmorpholinium, etc.; n = 1, 4, 8) were prepared by the reaction of a tertiary amine with F(CF2)nSO2F and an alkoxysilane. Thus, F(CF2)4SO2F reacted with Et3N and MeSi(OEt)3 in Et2O to give 70.5% Et4N+F(CF2)4SO3-. I were useful as surfactants.
ACCESSION NUMBER: 1975:513653 CAPLUS
DOCUMENT NUMBER: 83:113653
TITLE: **Perfluoroalkyl**-substituted, quaternary ammonium salts
INVENTOR(S): Niederpruem, Hans; Voss, Peter; Beyl, Volker
PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 22 pp. Division of Ger. Offen. 1,929,665 (CA 74;87395g).
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1966931	A1	19750528	DE 1969-1966931	19690611
DE 1966931	B2	19771124		
DE 1966931	C3	19781102		

PRIORITY APPLN. INFO.: DE 1969-1966931 19690611
IT **14629-45-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with **perfluoroalkylsulfonyl** fluorides and amines)
RN 14629-45-9 CAPLUS
CN Silane, trimethyl(pentyloxy)- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

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=>  s fluoro?
L12     360894 FLUORO?

=> d his

     (FILE 'HOME' ENTERED AT 17:24:29 ON 06 JUN 2004)

     FILE 'REGISTRY' ENTERED AT 17:24:42 ON 06 JUN 2004
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L2           50 S L1
L3       106014 S L1 FULL

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L4        28782 S L3
L5        47305 S PERFLUOR?
L6          209 S L4 AND L5

     FILE 'REGISTRY' ENTERED AT 17:32:13 ON 06 JUN 2004
L7              STRUCTURE UPLOADED
L8            0 S L7
L9          218 S L7 FULL

     FILE 'CAPLUS' ENTERED AT 17:33:47 ON 06 JUN 2004
L10         393 S L9
L11           3 S L10 AND L5
L12      360894 S FLUORO?

=> s l12 and l10
L13          15 L12 AND L10

=> s l13 not l11
L14          13 L13 NOT L11

=> d l14 1-13 abs ibib hitstr
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L14 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

AB Disclosed is a method for producing aminodihalophosphines, diaminohalophosphines, triaminophosphines, phosphite diamides, aminophosphines, diaminophosphines, phosphite amide halogenides, and aminophosphine halogenides by separating an acid in the presence of an auxiliary base. Said auxiliary base (b) forms a salt with an acid, which is liquid at temps. at which the valuable product is not significantly decomposed during separation of the liquid salt, and (c) the salt of the auxiliary base and the valuable product or the solution of the valuable product form two immiscible phases in a suitable solvent. Thus, reaction of dichloro(phenyl)phosphine with EtOH in presence of 1-methylimidazole (auxiliary base) followed by separation of immiscible 1-methylimidazole containing ionic liquid gave upto 96% of diethoxyphenylphosphine.

ACCESSION NUMBER: 2003:591192 CAPLUS
DOCUMENT NUMBER: 139:149757
TITLE: Method for the separation of acids from chemical reaction mixtures by means of ionic fluids
INVENTOR(S): Volland, Martin; Seitz, Verena; Maase, Matthias; Flores, Miguel; Papp, Rainer; Massonne, Klemens; Stegmann, Veit; Halbritter, Klaus; Noe, Ralf; Bartsch, Michael; Siegel, Wolfgang; Becker, Michael; Huttenloch, Oliver
PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 111 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003062251	A1	20030731	WO 2003-EP549	20030121
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10202838	A1	20030807	DE 2002-10202838	20020124
DE 10230222	A1	20040122	DE 2002-10230222	20020704
DE 10248902	A1	20040429	DE 2002-10248902	20021018
DE 10251140	A1	20040513	DE 2002-10251140	20021031

PRIORITY APPLN. INFO.:
DE 2002-10202838 A 20020124
DE 2002-10230222 A 20020704
DE 2002-10248902 A 20021018
DE 2002-10251140 A 20021031

OTHER SOURCE(S): CASREACT 139:149757; MARPAT 139:149757

IT **1825-65-6P**, 1-Trimethylsilyloxybutane
RL: SPN (Synthetic preparation); PREP (Preparation)
(method for separation of acids with auxiliary base from chemical reaction

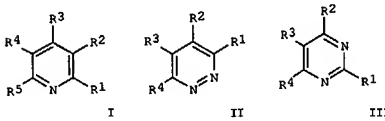
L14 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
mixts. by means of ionic fluids in org. synthesis)

RN 1825-65-6 CAPLUS
CN Silane, butoxytrimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

GI



I II III

AB A process for the separation of chemical reaction mixts. via the in situ generation of ionic liqs. from an auxiliary base I, II, III, etc. [R1, R2, R3, R4, R5 = H, alkyl, optionally substituted by O or S] and the lewis acid generated reaction byproduct is disclosed. Of note, the auxiliary base forms a salt with the acid generated during the reaction, upon heating this salt dissolves, creating two immiscible fluid phases, from which the product is separated from the reagents. For example, to a solution of 2,2-dimethyl-1-propanol (82.5 mmol) and 1-methylimidazole (82.5 mmol) at room temperature was added dropwise acetyl chloride (82.5 mmol). The mixture was stirred at 20°C for 30 min, then at 75°C. The reaction suspension was transformed with heating into a two-phase liquid mixture The upper layer was separated to afford 8.40 gm of 2,2-dimethyl-1-propanol acetate in 98% purity. Approx., 34-examples of the disclosed process, i.e., phosphorylation, silylation, sulfuration, etc., were provided.

ACCESSION NUMBER: 2003:591125 CAPLUS
DOCUMENT NUMBER: 139:149632
TITLE: A process for the separation of chemical reaction mixtures via the in situ generation of ionic liquids from an auxiliary base and lewis acid reaction byproduct
INVENTOR(S): Maase, Matthias; Massonne, Klemens; Halbritter, Klaus; Noe, Ralf; Bartsch, Michael; Siegel, Wolfgang; Stegmann, Veit; Flores, Miguel; Huttenloch, Oliver; Becker, Michael
PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 60 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003062171	A2	20030731	WO 2003-EP545	20030121
WO 2003062171	A3	20031016		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10202838	A1	20030807	DE 2002-10202838	20020124
DE 10230222	A1	20040122	DE 2002-10230222	20020704
DE 10248902	A1	20040429	DE 2002-10248902	20021018
DE 10251140	A1	20040513	DE 2002-10251140	20021031
US 2004073035	A1	20040415	US 2003-467065	20030819

PRIORITY APPLN. INFO.:
DE 2002-10202838 A 20020124
DE 2002-10230222 A 20020704
DE 2002-10248902 A 20021018
DE 2002-10251140 A 20021031
WO 2003-EP545 W 20030121

OTHER SOURCE(S): CASREACT 139:149632; MARPAT 139:149632

IT **1825-65-6P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(product; separation of chemical reaction mixts. via the in situ generation of ionic liqs. from an auxiliary base and lewis acid reaction byproduct)

RN 1825-65-6 CAPLUS
CN Silane, butoxytrimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L14 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

AB Refrigerator oil compns. for prevention of fine tube plugging and deterioration contain alkoxysilane compds. having the general formula SiRl(R1)mOR2, where l and m = integers greater than 0 and l+m = 3; R = H, C1-4 alkyl or Ph; R1 = C1-18 alkyl or alkyloxyalkyl, or polyoxyalkylene; and R2 = C1-12 alkyl.

ACCESSION NUMBER: 1998:160946 CAPLUS
DOCUMENT NUMBER: 128:246131
TITLE: Refrigerator oil compositions
INVENTOR(S): Wakita, Katsuya; Kawakami, Tetsuji; Nakajima, Keizo; Sato, Shigehiro; Ozaki, Yusuke
PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

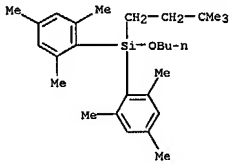
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10067996	A2	19980310	JP 1997-106432	19970423
CN 1168915	A	19971231	CN 1997-110814	19970425
CN 1068038	B	20010704		

PRIORITY APPLN. INFO.: JP 1996-104886 A 19960425
OTHER SOURCE(S): MARPAT 128:246131
IT **1825-65-6**, Butoxytrimethylsilane
RL: MOA (Modifier or additive use); USES (Uses)
(water catcher; refrigerator oil compns. containing)
RN 1825-65-6 CAPLUS
CN Silane, butoxytrimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L14 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

AB The dimesitylneopentylsilene Mes2Si:CHCH2tBu (1) was obtained in almost quant. yield by reaction of tert-butyllithium with dimesitylvinylfluorosilane; 1 is certainly one of the most easily available stable silenes. In spite of its stability, 1 presents a high reactivity in the field of classical chemical of organometallic alkenes such as addition or cycloaddn. reactions and, in some cases, an original behavior of ene-reagent (towards benzaldehyde) and both ene- and enophilic-reagent (towards acetophenone).

ACCESSION NUMBER: 1996:330967 CAPLUS
DOCUMENT NUMBER: 125:114742
TITLE: Dimesitylneopentylsilene, a stable and easily prepared silene and its reactivity
AUTHOR(S): Delpon-Lacaze, G.; Battisti, C. de; Couret, C.
CORPORATE SOURCE: Laboratoire d'Heterochimie Fondamentale et Appliquee, URA 477, Universite Paul Sabatier, Toulouse, 31062, Fr.
SOURCE: Journal of Organometallic Chemistry (1996), 514(1-2), 59-66
CODEN: JORCAI; ISSN: 0022-328X
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: French
OTHER SOURCE(S): CASREACT 125:114742
IT **179008-29-8P**, Butoxy(3,3-dimethylbutyl)bis(2,4,6-trimethylphenyl)silane
RL: SPN (Synthetic preparation); PREP (Preparation)
(formation in alcoholysis of silene)
RN 179008-29-8 CAPLUS
CN Silane, butoxy(3,3-dimethylbutyl)bis(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



L14 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

GI For diagram(s), see printed CA Issue.

AB Organosilyl polyphosphates of composition (P2O5)n.[Y(R3Si)R1] (1 < n < 10; Y = O, Cl2, Br2, ClBr; R = alkyl; R1 = alkyl, methoxyethyl, ethoxyethyl, trialkylsilyloxyethyl, trialkylsilyl, etc.) which are prepared by reaction of P2O5 with corresponding Si compds. (halosilanes and silyloxy compds.), are used as reagents for cyclization of (aminomethylene)malonates I [X = N, CF, CH, CNO2, COH, CCO2H, CCO2Me; X1-X3 = H, F, Cl, Br, alkyl, NO2, SO3H, CO2H, OH, OMe, methylenedioxy, dialkylamino, piperazino, (substituted) aryl, etc.; R2 = H, OH, trialkylsilyl, alkyl, cycloalkyl, (substituted) aryl, etc.; or R2 may form ring to X; R3 = alkyl, Me3Si, H, CH2Ph] to give antibacterial (aza)quinolones II. For example a suspension of 12.0 cmol P2O5 and 4.0 cmol (Me3Si)2O in 24 mL CHCl3 was refluxed to dissoln., followed by addition of 2.4 cmol di-Et N-cyclopropyl-[3-(4-acetyl-1-piperazinyl)-4-**fluoro**]anilinomethylenemalonate and refluxing for 60 min. Hydrolytic workup gave 94.5% 1-cyclopropyl-6-**fluoro**-7-(1-piperazinyl)-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid, i.e. ciprofloxacin. A wide variety of II were prepared similarly, with >90% yields typical.

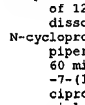
ACCESSION NUMBER: 1991:82118 CAPLUS
DOCUMENT NUMBER: 114:82118
TITLE: Preparation of new organosilyl polyphosphate reagents for cyclization of aminomethylenemalonates in the preparation of quinolone and azaquinolone antibacterials
INVENTOR(S): Palomo-Nicolau, Francisco Eugenio; Cabre-Castellvi, Francisco; Cabre-Castellvi, Juan; Ballester-Rodes, Montserratt; Palomo-Coll, Antonio Luis
PATENT ASSIGNEE(S): Centro Marga para la Investigacion S. A., Spain
SOURCE: Eur. Pat. Appl., 27 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 376870	A1	19900704	EP 1989-500046	19890418
R: AT, CH, DE, ES, FR, GB, IT, LI, NL, SE				
ES 2014560	A6	19900716	ES 1988-4024	19881230

PRIORITY APPLN. INFO.: ES 1988-4024 19881230
OTHER SOURCE(S): MARPAT 114:82118
IT **1825-65-6DP**, reaction products with phosphorus pentoxide
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as reagents for preparation of quinolone antibacterials)
RN 1825-65-6 CAPLUS
CN Silane, butoxytrimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L14 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

IT **1825-65-6**, n-Butyl trimethylsilyl ether
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with phosphorus pentoxide)
RN 1825-65-6 CAPLUS
CN Silane, butoxytrimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

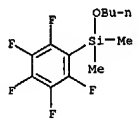


L14 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
AB Transetherification of Me3SiOCH2(CF2)nH (n = 2, 4, 6, 8) with ROH (R = C1-C5 alkyl, Me3CCHMe, allyl, HC.tplbond.CCH2, cyclohexyl, cyclopentyl) gave 86-95% Me3SiOR (same R). Reaction of Me3SiCl with R1OH [R1 = R, C6-C9 n-alkyl, O2NCH2CH2, (C1CH2)2CH, O2NCF2CH2, EtOCH2CH2, 2- and 4-methylcyclohexyl, 2-bornyl] in the presence of urea gave 60-95% Me3SiOR1. Treating Me2SiCl2 with 1 equiv of 8 ROH in the presence of urea gave 50-90% ROSiMe2Cl, whereas 2 equiv ROH (R = Et, Me2CH) gave 70-86% Me2Si(OR)2. Reaction of 2 equiv Me3SiCl with 8 diols Z(OH)2 [Z = CH2, (CH2)4, (CH2)2O(CH2)2, (CH2)2S(CH2)2, etc.] gave 86-95% Z(OSiMe3)2. Diels-Alder reaction of unsatd. alkoxysilanes with cyclopentadiene gave 72-79% bicyclic adducts.
ACCESSION NUMBER: 1989:478093 CAPLUS
DOCUMENT NUMBER: 111:78093
TITLE: New syntheses of alkoxysilanes and their properties
AUTHOR(S): Krolevets, A. A.; Antipova, V. V.; Popov, A. G.; Adamov, A. V.
CORPORATE SOURCE: USSR
SOURCE: Zhurnal Obshchei Khimii (1988), 58(10), 2274-81
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 111:78093
IT **1825-63-4P 1825-65-6P 14629-45-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 1825-63-4 CAPLUS
CN Silane, trimethylpropoxy- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

RN 1825-65-6 CAPLUS
CN Silane, butoxytrimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

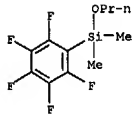
RN 14629-45-9 CAPLUS
CN Silane, trimethyl(pentyloxy)- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L14 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
AB (F5C6)SiMeR derivs. (R = Me = flophemesyl; R = iso-Pr = ISP-flophemesyl; R = tert-Bu = tert-buflophenesyl; and R = chloromethyl = CM-flophemesyl) of a wide range of organic functional groups can be prepared and have good gas chromatog. and electron-capture detector properties. The derivs. are compared in terms of volatility, hydrolytic stability, detector response, and mass spectral properties.
Bis(pentafluorophenyl)chloromethylmethylsil ane is evaluated as a reagent for preparing derivs. of strong nucleophiles.
CM-flophemesyl chloride is evaluated as a cyclizing reagent for preparing derivs. of β- and γ-hydroxyamines. The flophemesyl derivative of N-nitrosodiethanolamine is suitable for detecting this compound at trace levels.
ACCESSION NUMBER: 1981:10732 CAPLUS
DOCUMENT NUMBER: 94:10732
TITLE: New electron-capturing pentafluorophenyldialkylchloros ilanes as versatile derivatizing reagents for gas chromatography
AUTHOR(S): Poole, C. F.; Sye, W. F.; Singhawangcha, S.; Hsu, F.; Zlatkis, A.; Arfwidsson, A.; Vessman, J.
CORPORATE SOURCE: Dep. Chem., Univ. Houston, Houston, TX, 77004, USA
SOURCE: Journal of Chromatography (1980), 199, 123-42
CODEN: JOCRAM; ISSN: 0021-9673
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **62394-61-0 71338-89-1 73000-26-7 73005-36-4 75943-67-8 75943-69-0 75943-70-3 75943-79-2 75943-81-6**
RL: ANT (Analyte); ANST (Analytical study)
(gas chromatog. of, with electron capture detection, relative retentions in)
RN 62394-61-0 CAPLUS
CN Silane, butoxydimethyl(pentafluorophenyl)- (9CI) (CA INDEX NAME)

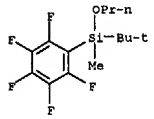


RN 71338-89-1 CAPLUS
CN Silane, dimethyl(pentafluorophenyl)propoxy- (9CI) (CA INDEX NAME)

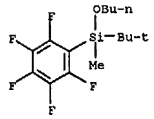
L14 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



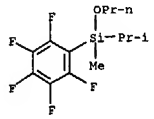
RN 73000-26-7 CAPLUS
CN Silane, (1,1-dimethylethyl)methyl(pentafluorophenyl)propoxy- (9CI) (CA INDEX NAME)



RN 73005-36-4 CAPLUS
CN Silane, butoxy(1,1-dimethylethyl)methyl(pentafluorophenyl)- (9CI) (CA INDEX NAME)

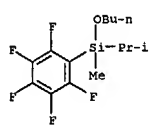


RN 75943-67-8 CAPLUS
CN Silane, methyl(1-methylethyl)(pentafluorophenyl)propoxy- (9CI) (CA INDEX NAME)

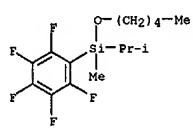


RN 75943-69-0 CAPLUS
CN Silane, butoxymethyl(1-methylethyl)(pentafluorophenyl)- (9CI) (CA INDEX NAME)

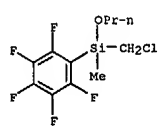
L14 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



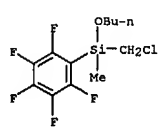
RN 75943-70-3 CAPLUS
CN Silane, methyl(1-methylethyl)(pentafluorophenyl)(pentyloxy)- (9CI) (CA INDEX NAME)



RN 75943-79-2 CAPLUS
CN Silane, (chloromethyl)methyl(pentafluorophenyl)propoxy- (9CI) (CA INDEX NAME)

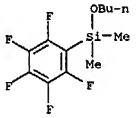


RN 75943-81-6 CAPLUS
CN Silane, butoxy(chloromethyl)methyl(pentafluorophenyl)- (9CI) (CA INDEX NAME)



L14 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
AB Decomposition and side reactions of C6F5MgBr and C6F5Li when used in syntheses,
were investigated using gas-chromatog.-mass spectral techniques. Reactions with reagents such as C6F5X (X = H, F, Cl, Br, iodo), C6F4X2 (X = H, Cl), C6F3Cl3, C6H6, (C6X5)3P (X = H, F), (C6X5)3PO (X = H, F), (C6X5)Si(Me3) (X = H, F) and Me4-nSiCln (n = 1, 2) in ether or ether/hexane were studied. In addition to the principal reaction of synthetic use, namely the replacement of halogen by a pentafluorophenyl group, 2 types of side reactions were observed: (i) intermol. loss of LiF via nucleophilic substitution, and (ii) intramol. loss of LiF, followed by
addition of either inorg. salts (such as Li or Mg halides) or organometallic
compds. (such as organolithium or Grignard reagent present in the system).
Gas chromatog.-mass spectra was an ideal method of monitoring such organometallic reaction systems, although it was sometimes not possible to
identify by-products as a particular isomer.
ACCESSION NUMBER: 1977:423355 CAPLUS
DOCUMENT NUMBER: 87:23355
TITLE: Decomposition and byproducts from reactions involving pentafluorophenyl-Grignard and lithium reagents. A GC/MS study
AUTHOR(S): Lin, Sechoing; Miller, Jack M.
CORPORATE SOURCE: Dep. Chem., Brock Univ., St. Catharines, ON, Can.
SOURCE: Journal of Fluorine Chemistry (1977), 9(2), 161-9
CODEN: JFLCAR; ISSN: 0022-1139
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **1825-65-6P**
RL: PREP (Preparation)
(from decomposition of pentafluorophenylmagnesium bromide and -lithium)
RN 1825-65-6 CAPLUS
CN Silane, butoxytrimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L14 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
AB The use of C6F5Me2SiCl (I) and C6F5Me2SiNH2 (II) for gas chromatog. and combined gas chromatog.-mass spectrometric determination of volatile alcs. is
described. Pentafluorophenyldimethylsilyl ethers (III) were formed quant.
and instantaneously by addition of equal vols. of I and II to primary or secondary alcs. in pyridine. Tertiary alcs. required .apprx.10 min at 25° for complete reaction. The retention times of III derived from alcs. and diols are given at 120-230° on Suprasorb AW HMDS support with 3% OV-101 stationary phase. The response of the electron capture detector increased with temperature from 250 to 350°. A dissociative mechanism was proposed, based on the neg. slope of the ln AT3/2 vs 1/T plot (where A is recorder peak area and T is absolute detector temperature). A
linear calibration curve was obtained for 25 + 10-15 g -2.5 pg neopentyl alc. The III of simple alcs. give mass spectra characterized by
a few ions, with the mol. ion prominent, sometimes forming the base peak. The III are well suited to identify structure by mass spectrometry or for use in single- or multiple-ion monitoring.
ACCESSION NUMBER: 1977:150135 CAPLUS
DOCUMENT NUMBER: 86:150135
TITLE: Detection of alcohols at the femtogram level as pentafluorophenyldimethylsilyl ethers
AUTHOR(S): Burkinshaw, P. M.; Morgan, E. D.; Poole, C. F.
CORPORATE SOURCE: Dep. Chem., Keele Univ., Keele/Staffs., UK
SOURCE: Journal of Chromatography (1977), 132(3), 548-51
CODEN: JOCRAM; ISSN: 0021-9673
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **62394-61-0**
RL: ANT (Analyte); PRP (Properties); ANST (Analytical study)
(mass spectrum of)
RN 62394-61-0 CAPLUS
CN Silane, butoxydimethyl(pentafluorophenyl)- (9CI) (CA INDEX NAME)



L14 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
AB A reaction of RPF4 with R1OSiMe3 gave FSiMe3 and 3δ RPF3(OR1) (R = Ph, Me;
R1 = Me, Et, Pr, Bu, n-pentyl, n-decyl, Et2CH, cyclohexyl, Cl3CH2, MeOCH2CH2, PhCH2CH2, NCCH2CH2, etc.). RPF3(OR1) had trigonal bipyramide structure in which the apical and equatorial F atoms exchanged rapidly.
ACCESSION NUMBER: 1975:479337 CAPLUS
DOCUMENT NUMBER: 83:79337
TITLE: Alkoxyfluorophosphoranes. I. Synthesis, structure, and stability of monoalkoxyfluorophosphoranes
AUTHOR(S): Riess, Jean G.; Robert, Dominique U.
CORPORATE SOURCE: Lab. Chim. Miner., Inst. Math. Sci. Phys., Nice, Fr.
SOURCE: Bulletin de la Societe Chimique de France (1975), (3-4, Pt. 1), 425-31
CODEN: BSCFAS; ISSN: 0037-8968
DOCUMENT TYPE: Journal
LANGUAGE: French
IT **1825-63-4 1825-65-6 14629-45-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with tetrafluorophosphoranes)
RN 1825-63-4 CAPLUS
CN Silane, trimethylpropoxy- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

RN 1825-65-6 CAPLUS
CN Silane, butoxytrimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

RN 14629-45-9 CAPLUS
CN Silane, trimethyl(pentyloxy)- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L14 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
AB Hydroxy groups are converted to **fluoro** groups by forming the trimethylsilyl ether and treating with excess **fluorophosphoranes**. Typically, iso-PrOH was silylated then treated with EtPF4 to give iso-PrF. Secondary alcs. gave some olefin side-products.
ACCESSION NUMBER: 1972:84953 CAPLUS
DOCUMENT NUMBER: 76:84953
TITLE: Preparation of carbon-fluorine compounds by the reaction of silyl ethers or tetra-alkoxysilanes with **fluorophosphoranes**
AUTHOR(S): Koop, H.; Schmutzler, R.
CORPORATE SOURCE: Tech. Univ. Braunschweig, Brunswick, Fed. Rep. Ger.
SOURCE: Journal of Fluorine Chemistry (1971), 1(2), 252-4
CODEN: JFLCAR; ISSN: 0022-1139
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **1825-65-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(fluorination of, by **fluorophosphoranes**)
RN 1825-65-6 CAPLUS
CN Silane, butoxytrimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

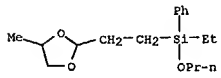
L14 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
AB The vapor pressures of tert-BuOBu and of the acetates, trifluoroacetates, penta-**fluoropropinates**, and trimethylsilyl ethers of 1-butanol, cyclohexanol, m-cresol, and p-cresol were measured at 80-130°. Antoine consts. have been calculated Where comparison is possible, the results of this work are in reasonable agreement with data reported in the literature.
ACCESSION NUMBER: 1969:406725 CAPLUS
DOCUMENT NUMBER: 71:6725
TITLE: Vapor pressures of fluorine- and silicon-containing derivatives of some hydroxylic compounds
AUTHOR(S): Sheehan, Richard J.; Langer, Stanley H.
CORPORATE SOURCE: Univ. of Wisconsin, Madison, WI, USA
SOURCE: Journal of Chemical and Engineering Data (1969), 14(2), 248-50
CODEN: JCEAAX; ISSN: 0021-9568
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **1825-65-6**
RL: PRP (Properties)
(vapor pressure of)
RN 1825-65-6 CAPLUS
CN Silane, butoxytrimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L14 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
AB 2-Chlorobenzoxazole (15.36 g.), added to a solution of 17.83 g. N-benzyl-N',N'-dimethylethylenediamine in 20 ml. quinoline with shaking and cooling, the mixture heated 16 hrs. at 150° after the initial reaction had subsided, the mixture then treated with 50 ml. 20% NaOH and steam-distilled, the residue from the steam-distillation extracted with absolute Et2O, and
the extract washed and dried and the Et2O evaporated, gave 8.94 g. of N-(2-benzoxazolyl)-N-benzyl-N',N'-dimethylethylenediamine (I), b0.07 155-60°. I in absolute EtOH treated with a solution of dry HCl in absolute
EtOH and absolute Me2CO and absolute Et2O added precipitated the hydrochloride, m.
212-13.5° (absolute EtOH-Me2CO-Et2O). 2-Chlorobenzoxazole (15.36 g.), 19.23 g. N-benzyl-N',N'-dimethyl-1,3-propanediamine, and 75 g. phenol, heated 24 hrs. at 150° after the initial reaction subsided, treated with 10 ml. HCl and steam-distilled, the residue treated with 25 ml. HCl and
extracted while hot with CHCl3, the aqueous layer made alkaline, extracted with C6H6, the
C6H6 evaporated and the residue distilled gave 14.06 g. of a product b0.05
177-82°. This product (in anhydrous EtOH) treated with HBr and the solvent evaporated on a steam-bath in vacuo gave N-(2-benzoxazolyl)-N-benzyl-
N',N'-dimethyl-1,3-propanediamine-HBr, m. 167.5-8.5° (absolute EtOH-Me2CO-Et2O). N-Benzyl-N',N'-dimethylethylenediamine (35.6 g.), 41.5 g. K2CO3, and 300 ml. C6H6 stirred while 30.7 g. 2-chlorobenzoxazole was added during 1.25 hrs., the mixture stirred an addnl. 2.5 hrs., refluxed 30
min., 100 ml. H2O added to the cooled mixture, the organic layer washed, and
the solvent distilled gave 48.0 g.I. The following compds. were similarly
prepared: N-(5-chloro-2-benzoxazolyl)-N-(4-bromobenzyl)-N',N'-dipropylethylenediamine tartrate, N-(6-chloro-2-benzoxazolyl)-N-(4-**fluorobenzyl**)-2-(4-morpholinyl)ethylamine phosphate,

N-(7-chloro-2-benzoxazolyl)-N-(2-ethoxybenzyl)-3-(1-piperidyl)propylamine-HCl,
N-(5-methoxy-2-benzoxazolyl)-N-benzyl-2-(1-pyrrolidyl)ethylamine-HCl, N-(5-tert-butyl-2-benzoxazolyl)-N-(4-propoxybenzyl)-N',N'-dimethylethylenediamine-HCl, N-(5-bromo-2-benzoxazolyl)-N-(4-isopropylbenzyl)-N', N'-dimethylethylenediamine p-toluenesulfonate, and N-(5-methoxy-2-benzoxazolyl)-N-(2-ethylbenzyl)-N',N'-dimethylethylenediamine-HCl. These compds. and their salts had local anesthetic and antifibrillatory properties.
ACCESSION NUMBER: 1959:111871 CAPLUS
DOCUMENT NUMBER: 53:111871
ORIGINAL REFERENCE NO.: 53:20090e-i
TITLE: 2-Aminobenzoxazoles
INVENTOR(S): Engelhardt, Edward L.
PATENT ASSIGNEE(S): Merck & Co., Inc.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

L14 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
US 2886572 19590512 US
GB 873210 GB
IT **18673-45-5**, 1,3-Dioxolane, 2-[2-(ethylphenylpropoxysilyl)ethyl]-4-methyl-
(and polysiloxane hydrolytic products)
RN 18673-45-5 CAPLUS
CN 1,3-Dioxolane, 2-[2-(ethylphenylpropoxysilyl)ethyl]-4-methyl- (8CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	80.55	684.90

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-11.09	-52.67

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